

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:36
First Dose M/F: NA / NA
Lab: SRI

C Number: C20008
Lock Date: 06/29/2006
Cage Range: All
Date Range: All
Reasons For Removal: All
Removal Date Range: All
Treatment Groups: All
Study Gender: Both
PWG Approval Date: 10/02/2008

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:36

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 1	TRT#: 1	SEX: Male	DAY ON TEST: 732
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 107405

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* 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
Tongue	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Minimal
* Kidney	Nephropathy	Minimal
* Liver	Mixed Cell Focus	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:36

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: 107406

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|---|------------------------|-------------------|
| * Kidney | Nephropathy | Minimal |
| * Liver | Hepatocellular Adenoma | Multiple |
| Note: HEPATOCELLULAR ADENOMAS ARE ON SLIDES 6 AND 21.
[Hepatocellular Adenoma TGLS = 1-21] | | |
| * Preputial Gland | Inflammation | Chronic, Moderate |

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:36
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 3	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 107407

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Mixed Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Mild

[Mixed Cell Focus TGLS = 1-21]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:36

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 4

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107408

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Intestine Small, Jejunum		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 1-3]			
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	Multiple
Note: A PORTION OF HEPATOCELLULAR CARCINOMA ALSO PRESENT ON SLIDE 6.			
[Hepatocellular Carcinoma TGLS = 2-21,3-22]			
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
	Alveolar Epith	Hyperplasia	Moderate
		Infiltration Cellular	Histiocyte, Marked
[Alveolar/Bronchiolar Carcinoma TGLS = 4-2]			
* Spleen		Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:36

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 5	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 107409

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hemangiosarcoma	
Note: HEMANGIOSARCOMA IS PRESENT IN BONE MARROW ON SLIDES 9 AND 24. [Hemangiosarcoma TGLS = 5-24]			
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Marked
* Lung		Hemorrhage	Moderate
[Hemorrhage TGLS = 6-25]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Skin		Edema	Moderate
	Subcut Tiss	Hemangiosarcoma	
[Hemangiosarcoma TGLS = 4-23]			
* Spleen		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Marked
[Hemangiosarcoma TGLS = 2-21,3-22]			
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

PRIMARY CAUSE OF DEATH

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Animal Note: TISSUE RESEMBLING HEMANGIOSARCOMA IS PRESENT ON SLIDE 3 ADJACENT TO SECTION OF AORTA.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:36
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 6	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 730 HISTO: 107410
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Cyst	Moderate
	Nephropathy	Minimal
Note: KIDNEY CYSTS ARE PRESENT ON SLIDES 5 AND 21. [Cyst TGLS = 1-21]		
* Liver	Hepatocellular Adenoma	Multiple
	Mixed Cell Focus	
	Hepatocyte	
	Vacuolization Cytoplasmic	Moderate
Note: HEPATOCELLULAR ADENOMAS ARE PRESENT ON SLIDES 6 AND 23. [Hepatocellular Adenoma TGLS = 3-23] [Mixed Cell Focus TGLS = 3-23] [Vacuolization Cytoplasmic TGLS = 4-6]		
* Preputial Gland	Cyst	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:36

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 7

TRT#: 1

SEX: Male

DAY ON TEST: 699

DOSE: 0 PPM

DISP: Natural Death

HISTO: 107411

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Jejunum
* Kidney	* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Preputial Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Stomach, Forestomach	* Testes	* Trachea	* Urinary Bladder

MISSING

* Thymus

AUTO PRECLUDES DIAG.

* Bone Marrow	* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Islets, Pancreatic	* Pancreas	* Stomach, Glandular
* Thyroid Gland			

OBSERVATIONS

* Adren Cortex			
Note: ONE OF THE ADRENAL GLANDS IS ON SLIDE 5.			
* Lung		Alveolar/Bronchiolar Carcinoma	
[Alveolar/Bronchiolar Carcinoma TGLS = 4-2]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[Hemangiosarcoma TGLS = 5-21]			
* Spleen		Hemangiosarcoma	
[Hemangiosarcoma TGLS = 2-6]		Hematopoietic Cell Proliferation	Minimal
[Hematopoietic Cell Proliferation TGLS = 2-6]			

PRIMARY CAUSE OF DEATH	- Spleen Hemangiosarcoma
CONTRIBUTORY CAUSE OF DEATH	- Lung Alveolar/Bronchiolar Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:36

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 8	TRT#: 1 DOSE: 0 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 731 HISTO: 107412
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Mild
* Kidney	Infiltration Cellular	Lymphocyte, Mild
	Nephropathy	Minimal
* Liver	Clear Cell Focus	
	Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-21]		
* Preputial Gland	Cyst	Moderate
	Inflammation	Chronic, Mild
* Spleen	Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:36

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 9

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107413

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* 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

* Gallbladder	* Lymph Node, Mesenteric
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OBSERVATIONS

* Harderian Gland		Hyperplasia	Focal, Moderate
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
		[Clear Cell Focus TGLS = 2-6]	
		[Hepatocellular Adenoma TGLS = 3-21,4-22]	
* Lung	Alveolar Epith	Hyperplasia	Moderate
* Preputial Gland		Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:36

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 10

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107414

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|--------------------------|
| * Adrenal Medulla | * Bone | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Islets, Pancreatic |
| * Kidney | * 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 | * Thymus | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|---|----------------|-----------------------------------|----------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Moderate |
| | | Hypertrophy | Focal, Minimal |
| * Intestine Small, Jejunum | | Lymphoma Malignant | |
| * Liver | | Clear Cell Focus | |
| | | Hepatocellular Adenoma | Multiple |
| [Clear Cell Focus TGLS = 3-6,6-25] | | | |
| [Hepatocellular Adenoma TGLS = 1-21,2-22,4-23,5-24] | | | |
| * Testes | Germinal Epith | Atrophy | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:36
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: 107415

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Preputial Gland		Cyst	Moderate
* Stomach, Glandular	Epithelium	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:36
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 12

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107416

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Adrenal Medulla		Pheochromocytoma Benign	
* Harderian Gland		Hyperplasia	Focal, Mild
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Minimal
* Liver		Mixed Cell Focus	
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:36

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 13

TRT#: 1

SEX: Male

DAY ON TEST: 712

DOSE: 0 PPM

DISP: Natural Death

HISTO: 107417

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- | | |
|-------------------|----------|
| * Pituitary Gland | * Thymus |
|-------------------|----------|

OBSERVATIONS

- | | | |
|---|----------------------------------|--------------------|
| * Bone Marrow | Hyperplasia | Mild |
| * Liver | Hepatocellular Carcinoma | Multiple |
| [Hepatocellular Carcinoma TGLS = 3-21,4-22,5-23] | | |
| * Lung | Hepatocellular Carcinoma | Metastatic (Liver) |
| [Hepatocellular Carcinoma TGLS = 7-26,8-27,9-25,11-29,12-2] | | |
| * Lymph Node, Mesenteric | Hemangioma | |
| Skeletal Muscle | Hemangiosarcoma | |
| [Hemangiosarcoma TGLS = 6-24] | | |
| * Spleen | Hematopoietic Cell Proliferation | Moderate |
| [Hematopoietic Cell Proliferation TGLS = 13-6] | | |
| * Stomach, Glandular | Erosion | Mild |
| [Erosion TGLS = 1-4] | | |

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma
 CONTRIBUTORY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:36

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 14

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107418

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Hepatocyte	Hepatocellular Adenoma	
		Vacuolization Cytoplasmic	Moderate
	[Clear Cell Focus TGLS = 1-21,2-6]		
	[Hepatocellular Adenoma TGLS = 2-6]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Hemorrhage	Moderate
	[Alveolar/Bronchiolar Carcinoma TGLS = 3-2]		
	[Hemorrhage TGLS = 3-2]		
* Preputial Gland		Inflammation	Chronic, Mild
* Thymus		Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Milk thistle extract
 CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
 Time Report Requested: 22:45:36
 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: 107419

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	* Kidney
* 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
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Eye	Cornea	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Harderian Gland		Adenoma	
[Adenoma TGLS = 2-12]			
* Liver		Clear Cell Focus	
* Testes	Interstitial Cell	Adenoma	
[Adenoma TGLS = 1-7]			
* Thymus		Cyst	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:36
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 16	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 107420

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fracture	
[Fracture TGLS = 1-21]			
* Kidney		Nephropathy	Minimal
* Lung		Sarcoma	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Preputial Gland		Cyst	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:36

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 17

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107421

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Minimal
* Liver	Hepatocyte	Hepatocellular Adenoma	
		Hepatodiaphragmatic Nodule	
		Vacuolization Cytoplasmic	Moderate
	[Hepatocellular Adenoma TGLS = 1-6]		
	[Hepatodiaphragmatic Nodule TGLS = 5-21]		
* Lung		Alveolar/Bronchiolar Adenoma	Multiple
	[Alveolar/Bronchiolar Adenoma TGLS = 2-22,3-23,4-24]		
* Seminal Vesicle		Degeneration	Moderate
* Spleen	Lymph Follic	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:36

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 18

TRT#: 1

SEX: Male

DAY ON TEST: 389

DOSE: 0 PPM

DISP: Natural Death

HISTO: 107422

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Small, Ileum	* Islets, Pancreatic	* Liver	* Lung
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Preputial Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Gallbladder

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Jejunum	* Lymph Node, Mesenteric	* Thyroid Gland	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
		Thrombosis	Moderate
[Thrombosis TGLS = 3-12]			
* Kidney		Nephropathy	Marked
* Lymph Node, Mandibular		Atrophy	Moderate
* Spleen	Lymph Follic	Atrophy	Moderate
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Kidney Nephropathy

CONTRIBUTORY CAUSE OF DEATH

- Heart Thrombosis

Animal Note: TISSUE ON SLIDE 21 IS SKELETAL MUSCLE AND BLOOD VESSEL.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:36

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 19

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107423

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Liver | * Lung |
| * 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 | * Trachea | | |

OBSERVATIONS

- | | | | |
|---|----------|----------------------------|-------------|
| * Kidney | | Nephropathy | Minimal |
| * Thyroid Gland | Follicle | Degeneration | Focal, Mild |
| * Urinary Bladder | | Calculus Gross Observation | |
| [Calculus Gross Observation TGLS = 1-8] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:36

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 20

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107424

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|---|--------------------------------|---------------|
| * Kidney | Nephropathy | Minimal |
| * Liver | Hepatocellular Carcinoma | |
| [Hepatocellular Carcinoma TGLS = 2-21] | | |
| * Lung | Alveolar/Bronchiolar Carcinoma | |
| [Alveolar/Bronchiolar Carcinoma TGLS = 3-2] | | |
| * Preputial Gland | Cyst | Moderate |
| | Inflammation | Chronic, Mild |
| [Cyst TGLS = 1-8] | | |
| [Inflammation TGLS = 1-8] | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:36

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 21

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107425

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* 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			

OBSERVATIONS

* Bone Marrow	Hyperplasia	Minimal
* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-21]		
* Spleen	Hematopoietic Cell Proliferation	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:36

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 22

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107426

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
Lymph Node	Pancreatic	Fibrosis	Moderate
	Mediastinal	Hematopoietic Cell Proliferation	Mild
	Pancreatic	Hematopoietic Cell Proliferation	Moderate
	Mediastinal	Hyperplasia	Lymphoid, Marked
	Pancreatic	Hyperplasia	Lymphoid, Moderate
[Fibrosis TGLS = 1-7]			
[Hematopoietic Cell Proliferation TGLS = 2-3]			
[Hematopoietic Cell Proliferation TGLS = 1-7]			
[Hyperplasia TGLS = 2-3]			
[Hyperplasia TGLS = 1-7]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Moderate
* Preputial Gland		Adenoma	
* Spleen	Lymph Follic	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:36
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 23 TRT#: 1 SEX: Male DAY ON TEST: 732
DOSE: 0 PPM DISP: Terminal Sacrifice HISTO: 107427

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Infarct	Moderate
		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	Multiple
Note: CLEAR CELL FOCI ARE ON SLIDE 21. HEPATOCELLULAR ADENOMAS ARE ON SLIDES 6 AND 21. [Hepatocellular Adenoma TGLS = 1-21]			
* Lung		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Lymphocyte, Moderate
		Infiltration Cellular	Histiocyte, Marked
[Alveolar/Bronchiolar Carcinoma TGLS = 2-22] [Infiltration Cellular TGLS = 3-2]			
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:36

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 24

TRT#: 1

SEX: Male

DAY ON TEST: 427

DOSE: 0 PPM

DISP: Natural Death

HISTO: 107428

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mesenteric

AUTO PRECLUDES DIAG.

* Gallbladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart	Myocardium	Necrosis	Minimal
* Liver	Centrilobular	Hepatocellular Carcinoma	Multiple
	[Hepatocellular Carcinoma TGLS = 2-21,3-22]	Necrosis	Marked
* Pancreas		Basophilic Focus	
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Glandular		Erosion	Mild
* Thymus		Atrophy	Mild

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:36

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 25

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107429

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

- * Lymph Node, Mandibular

OBSERVATIONS

- | | | |
|-------------------|--------------------|----------------|
| * Adrenal Cortex | Hypertrophy | Focal, Minimal |
| * Kidney | Cyst | Moderate |
| | Nephropathy | Minimal |
| * Preputial Gland | Cyst | Moderate |
| * Thymus | Lymphoma Malignant | |

[Lymphoma Malignant TGLS = 1-3]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:36

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 26

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107430

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 3-21]			
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
[Alveolar/Bronchiolar Carcinoma TGLS = 4-2,5-2]			
Lymph Node	Inguinal	Lymphoma Malignant	
Note: MALIGNANT LYMPHOMA WAS DIAGNOSED IN INGUINAL LYMPH NODE (NONPROTOCOL-REQUIRED TISSUE).			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Preputial Gland		Inflammation	Chronic, Marked
[Inflammation TGLS = 1-22]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 2-6]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 27

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107431

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lung	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Harderian Gland		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
		Mixed Cell Focus	
[Hepatocellular Carcinoma TGLS = 2-21]			
[Mixed Cell Focus TGLS = 1-6]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 28

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107432

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Islets, Pancreatic		Hyperplasia	Mild
* Kidney	Renal Tubule	Hyperplasia	Mild
		Nephropathy	Minimal
* Liver		Mixed Cell Focus	Mild
	[Mixed Cell Focus TGLS = 3-22]		
* Lung		Alveolar/Bronchiolar Carcinoma	
		Hemorrhage	Minimal
		Infiltration Cellular	Histiocyte, Mild
	[Alveolar/Bronchiolar Carcinoma TGLS = 2-21]		
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 29

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107433

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Mild
* Kidney	Nephropathy	Minimal
* Preputial Gland	Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

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: 107434

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Epididymis
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Pituitary Gland
- * Seminal Vesicle
- * Stomach, Glandular
- * Trachea

- * Bone
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Lung
- * Nose
- * Preputial Gland
- * Skin
- * Testes
- * Urinary Bladder

- * Bone Marrow
- * Eye
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pancreas
- * Prostate
- * Spleen
- * Thymus

- * Brain
- * Gallbladder
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Salivary Glands
- * Stomach, Forestomach
- * Thyroid Gland

OBSERVATIONS

- * Adrenal Cortex
- * Kidney

- Hypertrophy
- Cyst
- Nephropathy
- Hepatocellular Carcinoma

- Focal, Minimal
- Moderate
- Minimal

[Hepatocellular Carcinoma TGLS = 1-21]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 31

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107435

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	Spinal Cord	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Kidney		Infiltration Cellular Nephropathy	Lymphocyte, Mild Minimal
* Lung		Alveolar/Bronchiolar Carcinoma Infiltration Cellular	Histiocyte, Marked
Note: HISTIOCYTIC INFILTRATION (ALVEOLAR MACROPHAGES) IS ON SLIDE 22. [Alveolar/Bronchiolar Carcinoma TGLS = 2-22]			
Peripheral Nerve		Atrophy	Mild
* Preputial Gland		Cyst	Moderate
* Skin	Subcut Tiss	Fibrous Histiocytoma	
[Fibrous Histiocytoma TGLS = 1-21]			
* Thymus			
Note: SECTION OF THYMUS PRESENT ON SLIDES 2 AND 3.			

PRIMARY CAUSE OF DEATH

-

Animal Note: MILD TO MODERATE PERIARTERITIS IN VARIOUS TISSUES INCLUDING BRAIN, HEART AND MESENTERY ON SLIDES 1, 4, 7, AND 12.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 32	TRT#: 1	SEX: Male	DAY ON TEST: 732
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 107436

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Moderate
* Kidney	Nephropathy	Minimal
* Liver	Basophilic Focus	
* Lung	Foreign Body	
* Preputial Gland	Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 33

TRT#: 1

SEX: Male

DAY ON TEST: 731

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107437

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Adenoma	
[Adenoma TGLS = 5-12]			
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 3-21]		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 4-22]			
* Lung		Infiltration Cellular	Histiocyte, Moderate
* Lymph Node, Mesenteric		Atrophy	Moderate
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Preputial Gland		Cyst	Moderate
[Cyst TGLS = 1-8]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 2-6]			
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 34	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 107438

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* 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	

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Kidney	Cyst	Moderate
	Nephropathy	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 35	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 107439

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* 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	

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Kidney	Nephropathy	Minimal
Mesentery	Hemangioma	
[Hemangioma TGLS = 1-21]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
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: 107440

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Heart		Cardiomyopathy	Minimal
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 2-22]			
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Lymphoma Malignant	
		Necrosis	Mild
[Necrosis TGLS = 1-21]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 37

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107441

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Gallbladder
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Salivary Glands
- * Stomach, Forestomach
- * Thyroid Gland

- * Adrenal Medulla
- * Epididymis
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Pituitary Gland
- * Seminal Vesicle
- * Stomach, Glandular
- * Trachea

- * Bone
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Lung
- * Nose
- * Preputial Gland
- * Skin
- * Testes
- * Urinary Bladder

- * Bone Marrow
- * Eye
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pancreas
- * Prostate
- * Spleen
- * Thymus

OBSERVATIONS

- * Kidney Nephropathy
- * Liver Hepatocellular Carcinoma

Minimal

[Hepatocellular Carcinoma TGLS = 1-21]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 38

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107442

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	
		Mixed Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
Note: THE HEPATOCELLULAR ADENOMA IS PRESENT ON SLIDE 6.			
[Clear Cell Focus TGLS = 2-21,3-22]			
[Mixed Cell Focus TGLS = 5-24]			
[Vacuolization Cytoplasmic TGLS = 1-6]			
* Lung		Alveolar/Bronchiolar Carcinoma	
		Foreign Body	
* Thymus		Cyst	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 39

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107443

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* 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	

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Harderian Gland	Hyperplasia	Focal, Mild
* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-21]		
* Lung	Hepatocellular Carcinoma	Metastatic (Liver)
* Spleen	Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

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: 107444

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Bone	* Bone Marrow	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* 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	* Prostate
* Salivary Glands	* Seminal Vesicle	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Adrenal Medulla	* Intestine Large, Rectum
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Int Sm Jejunum			
Note: JEJUNUM IS PRESENT ON SLIDE 4.			
* Kidney		Infarct	Minimal
		Nephropathy	Minimal
* Liver		Mixed Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Mixed Cell Focus TGLS = 2-22]			
* Preputial Gland		Cyst	Moderate
* Skin	Subcut Tiss	Fibroma	
[Fibroma TGLS = 1-21]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 41

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107445

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Minimal
* Harderian Gland	Adenoma	
* Kidney	Infarct	Mild
	Nephropathy	Minimal
* Liver	Eosinophilic Focus	
	Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 1-21]		
* Preputial Gland	Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 42	TRT#: 1	SEX: Male	DAY ON TEST: 729
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 107446

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Preputial Gland	Cyst	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 43

TRT#: 1

SEX: Male

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107447

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Kidney	Infiltration Cellular	Lymphocyte, Moderate
	Nephropathy	Mild
* Liver	Hepatocellular Adenoma	
	Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLS = 3-21]	
	[Hepatocellular Carcinoma TGLS = 4-22]	
* Lung	Hepatocellular Carcinoma	Metastatic (Liver)
* Preputial Gland	Cyst	Moderate
	Inflammation	Chronic, Moderate
* Spleen	Hematopoietic Cell Proliferation	Moderate
	[Hematopoietic Cell Proliferation TGLS = 2-6]	
* Thymus		
Note: THYMUS IS PRESENT ON SLIDE 2.		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 44

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107448

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
	Capsule	Hyperplasia	Mild
		Hyperplasia	Focal, Minimal
* Bone Marrow		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Preputial Gland		Cyst	Moderate
* Skin	Subcut Tiss	Fibrous Histiocytoma	

[Fibrous Histiocytoma TGLS = 1-21]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 45	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 107449

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Mild
* Kidney	Nephropathy	Minimal
* Liver	Mixed Cell Focus	
[Mixed Cell Focus TGLS = 1-6]		
* Preputial Gland	Cyst	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 46

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107450

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* 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	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
Note: EXTENSIVE NECROSIS OF HEPATOCELLULAR CARCINOMA (SLIDE 21). [Hepatocellular Carcinoma TGLS = 1-21]			
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 47	TRT#: 1	SEX: Male	DAY ON TEST: 731
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 107451

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Preputial Gland		Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 48	TRT#: 1	SEX: Male	DAY ON TEST: 588
	DOSE: 0 PPM	DISP: Natural Death	HISTO: 107452

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* 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

* Thymus

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Heart		Cardiomyopathy	Moderate
		Thrombosis	Moderate
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
		Infarct	Marked
		Nephropathy	Mild
* Liver		Hematopoietic Cell Proliferation	Moderate
		Hepatocellular Carcinoma	
		Necrosis	Focal, Minimal
	[Hepatocellular Carcinoma TGLS = 2-21]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLS = 1-6]		

PRIMARY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 49

TRT#: 1

SEX: Male

DAY ON TEST: 730

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107453

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
		Necrosis	Focal, Moderate
Note: EXTENSIVE NECROSIS AND STROMAL CELL PROLIFERATION WITHIN THE HEPATOCELLULAR ADENOMA (SLIDE 23).			
[Hepatocellular Adenoma TGLS = 4-23]			
[Hepatocellular Carcinoma TGLS = 5-24]			
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
		Infiltration Cellular	Histiocyte, Marked
[Alveolar/Bronchiolar Carcinoma TGLS = 7-26,8-2]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 2-22]			
* Preputial Gland		Cyst	Moderate
* Skin	Sebaceous GI	Carcinoma	
	Epidermis	Hyperplasia	Moderate
		Ulcer	Moderate
[Carcinoma TGLS = 1-21]			
[Hyperplasia TGLS = 9-25]			
[Ulcer TGLS = 9-25]			
* Spleen		Hematopoietic Cell Proliferation	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 49	TRT#: 1	SEX: Male	DAY ON TEST: 730
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 107453

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Cyst	Moderate
* Urinary Bladder		Calculus Gross Observation	
	Transit Epithe	Hyperplasia	Mild
[Calculus Gross Observation TGLS = 6-8]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 50

TRT#: 1

SEX: Male

DAY ON TEST: 729

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107454

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Harderian Gland		Adenoma	
* Heart		Cardiomyopathy	Minimal
* Intestine Large, Cecum		Edema	Mild
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Carcinoma	Multiple
		Infiltration Cellular	Mixed Cell, Mild
	[Hepatocellular Carcinoma TGLS = 3-21,4-22]		
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLS = 2-6]		
* Testes	Germinal Epith	Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 51	TRT#: 3 DOSE: 12500 PPM	SEX: Male DISP: Terminal Sacrifice	DAY ON TEST: 732 HISTO: 107455
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ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-21]			
* Preputial Gland		Cyst	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 52	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 12500 PPM	DISP: Terminal Sacrifice	HISTO: 107456

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* 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

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Infarct	Mild
	Nephropathy	Minimal
* Liver	Basophilic Focus	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 53	TRT#: 3	SEX: Male	DAY ON TEST: 731
	DOSE: 12500 PPM	DISP: Terminal Sacrifice	HISTO: 107457

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* 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	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Harderian Gland		Adenoma	
[Adenoma TGLS = 2-12]			
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 1-6]			
* Lung	Alveolar Epith	Hyperplasia	Mild
		Inflammation	Chronic, Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 54

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107458

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Minimal
* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Adenoma	
* Lung	Alveolar/Bronchiolar Adenoma	Multiple
	Infiltration Cellular	Histiocyte, Mild

[Alveolar/Bronchiolar Adenoma TGLS = 1-2,2-21]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 55

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107459

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Kidney		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Cyst	Moderate
		Metaplasia	Osseous, Mild
		Nephropathy	Mild
Note: THE OSSEOUS METAPLASIA IS ON SLIDE 21. [Alveolar/Bronchiolar Carcinoma TGLS = 1-21]			
* Liver		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
		Mixed Cell Focus	
[Alveolar/Bronchiolar Carcinoma TGLS = 2-22]			
* Lung	Alveolar Epith	Alveolar/Bronchiolar Carcinoma	Multiple
		Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Marked
		Infiltration Cellular	Lymphocyte, Moderate
[Alveolar/Bronchiolar Carcinoma TGLS = 5-2,9-2,10-2] [Hyperplasia TGLS = 6-24] [Infiltration Cellular TGLS = 4-2,8-25]			
* Preputial Gland		Cyst	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 56

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107460

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	
[Hepatocellular Adenoma TGLS = 4-23]			
[Hepatocellular Carcinoma TGLS = 3-24]			
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-22,2-21]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 57

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107461

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Bone

* Bone Marrow

* Brain

* Epididymis

* Esophagus

* Eye

* Gallbladder

* Harderian Gland

* Heart

* Intestine Large, Cecum

* Intestine Large, Colon

* Intestine Large, Rectum

* Intestine Small, Duodenum

* Intestine Small, Ileum

* Intestine Small, Jejunum

* Islets, Pancreatic

* Lung

* Lymph Node, Mandibular

* Lymph Node, Mesenteric

* Mammary Gland

* Nose

* Pancreas

* Parathyroid Gland

* Pituitary Gland

* Prostate

* Salivary Glands

* Seminal Vesicle

* Skin

* Spleen

* Stomach, Forestomach

* Stomach, Glandular

* Testes

* Thymus

* Thyroid Gland

* Trachea

* Urinary Bladder

OBSERVATIONS

* Kidney

Nephropathy

Mild

* Liver

Hepatocellular Carcinoma

[Hepatocellular Carcinoma TGLS = 2-21]

* Preputial Gland

Cyst

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 58

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107462

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Brain

* Gallbladder

* Intestine Large, Colon

* Intestine Small, Jejunum

* Lymph Node, Mandibular

* Pancreas

* Prostate

* Spleen

* Thyroid Gland

* Adrenal Medulla

* Epididymis

* Harderian Gland

* Intestine Large, Rectum

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Parathyroid Gland

* Salivary Glands

* Stomach, Forestomach

* Trachea

* Bone

* Esophagus

* Heart

* Intestine Small, Duodenum

* Liver

* Mammary Gland

* Pituitary Gland

* Seminal Vesicle

* Stomach, Glandular

* Urinary Bladder

* Bone Marrow

* Eye

* Intestine Large, Cecum

* Intestine Small, Ileum

* Lung

* Nose

* Preputial Gland

* Skin

* Testes

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Kidney

Nephropathy

Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 59	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 12500 PPM	DISP: Terminal Sacrifice	HISTO: 107463

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Preputial Gland	Cyst	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 60

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107464

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* 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	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Mixed Cell Focus	
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 61

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107465

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	* Lymph Node, Mandibular	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Harderian Gland		Hyperplasia	Focal, Moderate
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Histiocyte, Moderate
[Alveolar/Bronchiolar Carcinoma TGLS = 1-2]			
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Moderate
* Preputial Gland		Cyst	Moderate
* Thymus		Cyst	Moderate
* Thyroid Gland	Follicular Cel	Adenoma	
	Follicle	Degeneration	Focal, Mild
[Adenoma TGLS = 2-3]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 62	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 12500 PPM	DISP: Terminal Sacrifice	HISTO: 107466

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	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Harderian Gland	Hyperplasia	Focal, Minimal
* Kidney	Cyst	Moderate
	Nephropathy	Minimal
[Cyst TGLS = 1-21]		
* Liver	Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 2-22]		
* Preputial Gland	Cyst	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 63

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107467

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Epididymis		Granuloma Sperm	Moderate
* Kidney		Infarct	Mild
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Mixed Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Mild
	[Hepatocellular Adenoma TGLS = 1-21]		
	[Mixed Cell Focus TGLS = 2-22]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Preputial Gland		Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 64

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107468

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|---|--------------------------|----------|
| * Kidney | Cyst | Moderate |
| [Cyst TGLS = 1-21] | Nephropathy | Minimal |
| * Liver | Hepatocellular Carcinoma | |
| [Hepatocellular Carcinoma TGLS = 2-22] | | |
| * Preputial Gland | Cyst | Moderate |
| * Urin Bladder | | |
| Note: INFUSION ARTIFACT IN URINARY BLADDER. | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 65

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107469

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Adenoma	
* Kidney		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
	[Hepatocellular Adenoma TGLS = 1-21,2-22]		
	[Hepatocellular Carcinoma TGLS = 3-23]		
* Preputial Gland		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 66

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107470

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* 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

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Necrosis	Focal, Marked
Note: LIVER TISSUE ON SLIDE 22 IS TOO NECROTIC TO DETERMINE IF NEOPLASTIC.			
			[Hepatocellular Adenoma TGLS = 2-21]
			[Necrosis TGLS = 3-22]
* Lung		Alveolar/Bronchiolar Carcinoma	
* Lymph Node, Mesenteric		Hemorrhage	Moderate
			[Hemorrhage TGLS = 1-5]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 67

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107471

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Epididymis
- * Heart
- * Intestine Small, Duodenum
- * Lung
- * Pancreas
- * Salivary Glands
- * Stomach, Glandular
- * Urinary Bladder

- * Adrenal Medulla
- * Esophagus
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Parathyroid Gland
- * Seminal Vesicle
- * Testes

- * Bone
- * Eye
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Mammary Gland
- * Pituitary Gland
- * Skin
- * Thyroid Gland

- * Brain
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Nose
- * Prostate
- * Stomach, Forestomach
- * Trachea

MISSING

- * Gallbladder

INSUFFICIENT TISSUE

- * Thymus

OBSERVATIONS

- * Bone Marrow
- * Kidney
- * Liver

Hyperplasia
 Nephropathy
 Clear Cell Focus
 Hepatocellular Adenoma

Mild
 Minimal

[Hepatocellular Adenoma TGLS = 2-21]

- * Lymph Node, Mesenteric

Hematopoietic Cell Proliferation
 Hyperplasia

Minimal
 Lymphoid, Mild

- * Preputial Gland

Cyst
 Inflammation

Moderate
 Chronic, Moderate

- * Spleen

Hemangiosarcoma
 Hematopoietic Cell Proliferation

Mild

[Hemangiosarcoma TGLS = 1-6]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 68

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107472

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Lymph Node, Mesenteric
---------------	--------------------------

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Carcinoma	Multiple
[Hepatocellular Carcinoma TGLS = 3-21,4-22,5-23]		
* Lung	Hepatocellular Carcinoma	Metastatic (Liver)
* Preputial Gland	Inflammation	Chronic, Mild
* Spleen	Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 2-6]		
* Testes	Germinal Epith	Atrophy
		Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 69

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107473

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Epididymis
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Seminal Vesicle
- * Stomach, Glandular
- * Trachea

- * Bone
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Liver
- * Mammary Gland
- * Pituitary Gland
- * Skin
- * Testes
- * Urinary Bladder

- * Bone Marrow
- * Eye
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Nose
- * Prostate
- * Spleen
- * Thymus

- * Brain
- * Gallbladder
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Pancreas
- * Salivary Glands
- * Stomach, Forestomach
- * Thyroid Gland

OBSERVATIONS

- * Adrenal Cortex
- * Kidney
- * Preputial Gland

- Accessory Adrenal Cortical Nodule
- Hypertrophy
- Nephropathy
- Cyst

- Moderate
- Focal, Minimal
- Minimal
- Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 70

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107474

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
	Capsule	Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 1-21]			
* Spleen	Lymph Follic	Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 71	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 12500 PPM	DISP: Terminal Sacrifice	HISTO: 107475

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* 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	* 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			

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Minimal
* Intestine Large, Cecum [Adenoma TGLS = 2-21]	Adenoma	
* Kidney	Nephropathy	Minimal
* Lymph Node, Mesenteric	Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 72

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107476

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Epididymis
- * Harderian Gland
- * Intestine Large, Rectum
- * Liver
- * Mammary Gland
- * Pituitary Gland
- * Skin
- * Testes
- * Urinary Bladder

- * Bone
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Lung
- * Nose
- * Prostate
- * Spleen
- * Thymus

- * Bone Marrow
- * Eye
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pancreas
- * Salivary Glands
- * Stomach, Forestomach
- * Thyroid Gland

- * Brain
- * Gallbladder
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Seminal Vesicle
- * Stomach, Glandular
- * Trachea

OBSERVATIONS

- * Adrenal Cortex
- * Islets, Pancreatic
- * Kidney
- * Preputial Gland

- Hyperplasia
- Adenoma
- Nephropathy
- Cyst
- Inflammation

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

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 73	TRT#: 3	SEX: Male	DAY ON TEST: 731
	DOSE: 12500 PPM	DISP: Terminal Sacrifice	HISTO: 107477

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Mild
* Kidney		Nephropathy	Minimal
* Liver		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach		Diverticulum	
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

Animal Note: LESIONS OF MODERATE PERIARTERITIS ON SLIDES 3, 5, 7, 8, AND 12; NOT TABULATED (BLOOD VESSEL IS NONPROTOCOL-REQUIRED TISSUE).

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 74

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107478

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Brain
* Gallbladder
* Intestine Large, Colon
* Intestine Small, Jejunum
* Mammary Gland
* Pituitary Gland
* Skin
* Testes
* Urinary Bladder

* Adrenal Medulla
* Epididymis
* Harderian Gland
* Intestine Large, Rectum
* Islets, Pancreatic
* Nose
* Prostate
* Spleen
* Thymus

* Bone
* Esophagus
* Heart
* Intestine Small, Duodenum
* Lung
* Pancreas
* Salivary Glands
* Stomach, Forestomach
* Thyroid Gland

* Bone Marrow
* Eye
* Intestine Large, Cecum
* Intestine Small, Ileum
* Lymph Node, Mandibular
* Parathyroid Gland
* Seminal Vesicle
* Stomach, Glandular
* Trachea

OBSERVATIONS

* Kidney

* Liver
* Lymph Node, Mesenteric
* Preputial Gland

Metaplasia
Nephropathy
Eosinophilic Focus
Hemorrhage
Cyst
Inflammation

Osseous, Mild
Minimal

Mild
Moderate
Chronic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 75

TRT#: 3

SEX: Male

DAY ON TEST: 642

DOSE: 12500 PPM

DISP: Natural Death

HISTO: 107479

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|------------------------|-------------------|---------------------|
| * Adrenal Medulla | * Bone | * Brain | * Epididymis |
| * Esophagus | * Eye | * Harderian Gland | * Heart |
| * Intestine Large, Rectum | * Mammary Gland | * Nose | * Parathyroid Gland |
| * Pituitary Gland | * Prostate | * Salivary Glands | * Seminal Vesicle |
| * Skin | * Stomach, Forestomach | * Testes | * Trachea |
| * Urinary Bladder | | | |

AUTO PRECLUDES DIAG.

- | | | | |
|-----------------------------|--------------------------|----------------------------|--------------------------|
| * Bone Marrow | * Gallbladder | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Lymph Node, Mesenteric | * Pancreas | * Thyroid Gland | |

OBSERVATIONS

- | | | | |
|------------------------------------|--------------|-----------------------------------|------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Moderate |
| * Kidney | Renal Tubule | Metaplasia | Osseous, Minimal |
| | | Necrosis | Minimal |
| Note: KIDNEY MODERATELY AUTOLYZED. | | | |
| * Liver | | Sarcoma | |
| * Lung | | Edema | Moderate |
| | | Sarcoma | |
| Lymph Node | Iliac | Sarcoma | |
| [Sarcoma TGLS = 3-21] | | | |
| * Lymph Node, Mandibular | | Sarcoma | |
| * Preputial Gland | | Cyst | Moderate |
| * Spleen | | Sarcoma | |
| [Sarcoma TGLS = 1-6] | | | |
| * Stomach, Glandular | | Sarcoma | |
| * Thymus | | Atrophy | Moderate |

PRIMARY CAUSE OF DEATH

- Liver Sarcoma

Animal Note: Animal had advanced autolysis.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 76

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107480

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla
* Epididymis
* Harderian Gland
* Intestine Large, Rectum
* Islets, Pancreatic
* Mammary Gland
* Pituitary Gland
* Skin
* Testes
* Urinary Bladder

* Bone
* Esophagus
* Heart
* Intestine Small, Duodenum
* Lung
* Nose
* Prostate
* Spleen
* Thymus

* Bone Marrow
* Eye
* Intestine Large, Cecum
* Intestine Small, Ileum
* Lymph Node, Mandibular
* Pancreas
* Salivary Glands
* Stomach, Forestomach
* Thyroid Gland

* Brain
* Gallbladder
* Intestine Large, Colon
* Intestine Small, Jejunum
* Lymph Node, Mesenteric
* Parathyroid Gland
* Seminal Vesicle
* Stomach, Glandular
* Trachea

OBSERVATIONS

* Adrenal Cortex
* Kidney

* Liver

Hyperplasia
Infarct
Nephropathy
Hepatocellular Adenoma
Hepatocellular Carcinoma

Focal, Minimal
Mild
Minimal

[Hepatocellular Adenoma TGLS = 1-21]

[Hepatocellular Carcinoma TGLS = 2-22]

* Preputial Gland

Cyst

Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 77

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107481

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Lung		Hemorrhage	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Cyst	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 78	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 12500 PPM	DISP: Terminal Sacrifice	HISTO: 107482

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* 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	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
	Capsule	Hyperplasia	Moderate
		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 79

TRT#: 3

SEX: Male

DAY ON TEST: 732

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107483

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Large, Rectum	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
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OBSERVATIONS

* Bone Marrow	Hyperplasia	Moderate
* Kidney	Infiltration Cellular	Lymphocyte, Mild
	Nephropathy	Minimal
* Liver	Hepatocellular Adenoma	
	Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 2-21]		
* Lung	Hepatocellular Carcinoma	Metastatic (Liver)
* Preputial Gland	Cyst	Moderate
* Spleen	Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 1-6]		
* Stom Forestom		

Note: SECTION ON SLIDE 22 IS A PORTION FORESTOMACH OVERLAPPING ITSELF WITH A PIECE OF OVERLYING GLANDULAR STOMACH (ARTIFACTUAL SECTION).

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 80

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107484

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Glandular	* Testes	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Harderian Gland		Adenoma	
[Adenoma TGLS = 3-12]			
* Kidney		Cyst	Moderate
		Nephropathy	Mild
* Liver		Hepatocellular Adenoma	Multiple
		Hepatocellular Carcinoma	
		Necrosis	Focal, Mild
Note: HEPATOCELLULAR ADENOMAS ARE PRESENT ON SLIDES 21 AND 22.			
[Hepatocellular Adenoma TGLS = 2-22]			
[Hepatocellular Carcinoma TGLS = 1-21]			
* Preputial Gland		Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 81

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107485

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 | * Lymph Node, Mandibular | * Mammary Gland |
| * Nose | * Pancreas | * Parathyroid Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

MISSING

- * Lymph Node, Mesenteric

OBSERVATIONS

- | | | | |
|-------------------------|---------------|-----------------------|----------------------|
| * Harderian Gland | | Adenoma | |
| [Adenoma TGLS = 2-21] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Lung | | Infiltration Cellular | Lymphocyte, Moderate |
| * Pituitary Gland | Pars Distalis | Cyst | Moderate |
| * Preputial Gland | | Inflammation | Chronic, Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 82

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107486

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* 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		

OBSERVATIONS

* Bone		Necrosis	Mild
Note: THE BONE NECROSIS IS AT THE DISTAL ASPECT OF FEMUR NEAR THE METAPHYSIS (SLIDE 9).			
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
	Hepatocyte	Vacuolization Cytoplasmic	Moderate
[Clear Cell Focus TGLS = 2-22]			
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 1-21]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 83

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107487

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Mild
* Kidney	Nephropathy	Mild
* Liver	Mixed Cell Focus	
[Mixed Cell Focus TGLS = 1-21]		
* Lung	Alveolar/Bronchiolar Adenoma	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 84

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107488

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Marked
* Kidney		Nephropathy	Moderate
* Liver		Hepatocellular Carcinoma	Multiple
Note: HEPATOCELLULAR CARCINOMA IS ON SLIDES 6, 21, AND 22. [Hepatocellular Carcinoma TGLS = 3-21,4-22]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Marked
* Skin	Subcut Tiss	Fibrous Histiocytoma	
[Fibrous Histiocytoma TGLS = 1-23]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 85

TRT#: 3

SEX: Male

DAY ON TEST: 633

DOSE: 12500 PPM

DISP: Natural Death

HISTO: 107489

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Gallbladder	* Lymph Node, Mandibular
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AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum
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OBSERVATIONS

* Bone Marrow	Hyperplasia	Marked
* Kidney	Nephropathy	Mild
* Liver	Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-21]		
* Lung	Hepatocellular Carcinoma	Metastatic (Liver)
[Hepatocellular Carcinoma TGLS = 5-23,6-22,7-22,8-2,9-2,10-2]	Infiltration Cellular	Histiocyte, Marked
* Preputial Gland	Cyst	Moderate
* Spleen	Hematopoietic Cell Proliferation	Marked
* Thymus	Atrophy	Marked

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 86

TRT#: 3

SEX: Male

DAY ON TEST: 716

DOSE: 12500 PPM

DISP: Natural Death

HISTO: 107490

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Lung	* 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

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum	* Intestine Small, Duodenum
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Mild
* Liver	Centrilobular	Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLS = 1-21]	Necrosis	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate
* Urin Bladder			

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 87

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107491

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

INSUFFICIENT TISSUE

* Lymph Node, Mesenteric

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Moderate
* Islets, Pancreatic		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Minimal
	[Alveolar/Bronchiolar Carcinoma TGLS = 3-22]		
	Mesentery	Hemangiosarcoma	
	[Hemangiosarcoma TGLS = 1-21]		
* Parathyroid Gland		Cyst	Moderate
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Mild
* Spleen		Hemangiosarcoma	
	[Hemangiosarcoma TGLS = 2-6]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 88

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107492

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mesenteric

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Infiltration Cellular	Lymphocyte, Moderate
		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Thymus		Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 89

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107493

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla	Hyperplasia	Minimal
* Intestine Small, Jejunum [Carcinoma TGLS = 4-21]	Carcinoma	
* Kidney	Cyst	Moderate
	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Carcinoma	Multiple
	Infiltration Cellular	Histiocyte, Marked
[Alveolar/Bronchiolar Carcinoma TGLS = 1-2,2-22]		
[Infiltration Cellular TGLS = 3-2]		
* Preputial Gland	Inflammation	Chronic, Mild
* Spleen	Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 90

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107494

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Minimal
* Kidney	Nephropathy	Minimal
* Lung	Hemorrhage	Minimal
* Lymph Node, Mesenteric	Hemorrhage	Mild
* Preputial Gland	Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 91	TRT#: 3	SEX: Male	DAY ON TEST: 730
	DOSE: 12500 PPM	DISP: Terminal Sacrifice	HISTO: 107495

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Moderate
* Kidney	Nephropathy	Minimal
* Preputial Gland	Cyst	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 92

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107496

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|----------------------------|---------------------------|-----------------------------|
| * Adrenal Medulla | * Bone | * 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, Mesenteric | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Pituitary Gland | * Prostate |
| * Salivary Glands | * Seminal Vesicle | * Skin | * Spleen |
| * Stomach, Forestomach | * Stomach, Glandular | * Testes | * Thymus |
| * Thyroid Gland | * Trachea | * Urinary Bladder | |

OBSERVATIONS

- | | | |
|---------------------------|-----------------------------------|--------------------|
| * Adrenal Cortex | Accessory Adrenal Cortical Nodule | Moderate |
| * Bone Marrow | Hyperplasia | Mild |
| * Harderian Gland | Carcinoma | |
| [Carcinoma TGLS = 1-12] | | |
| * Kidney | Cyst | Moderate |
| | Nephropathy | Minimal |
| * Lymph Node, Mandibular | Hyperplasia | Lymphoid, Moderate |
| * Preputial Gland | Cyst | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 93

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107497

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--------------------------|----------------|----------------------------------|----------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Kidney | | Cyst | Moderate |
| | | Nephropathy | Mild |
| * Liver | Hepatocyte | Vacuolization Cytoplasmic | Minimal |
| * Lung | Alveolar Epith | Hyperplasia | Moderate |
| * Lymph Node, Mesenteric | | Hyperplasia | Lymphoid, Mild |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 94

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107498

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
Spinal Cord	* Spleen	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Trachea	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Bone Marrow		Hyperplasia	Minimal
* Harderian Gland		Carcinoma	
[Carcinoma TGLS = 2-12]			
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 4-23]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Marked
* Parathyroid Gland		Cyst	Moderate
Peripheral Nerve		Atrophy	Minimal
* Preputial Gland		Cyst	Moderate
Skeletal Muscle		Sarcoma	
[Sarcoma TGLS = 3-22]			
* Skin	Subcut Tiss	Fibrous Histiocytoma	
[Fibrous Histiocytoma TGLS = 1-21]			
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 95	TRT#: 3	SEX: Male	DAY ON TEST: 729
	DOSE: 12500 PPM	DISP: Terminal Sacrifice	HISTO: 107499

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Carcinoma	
	Necrosis	Focal, Minimal
[Hepatocellular Carcinoma TGLS = 1-21]		
* Lung	Alveolar/Bronchiolar Carcinoma	
	Hemorrhage	Minimal
	Infiltration Cellular	Histiocyte, Moderate
[Alveolar/Bronchiolar Carcinoma TGLS = 2-2]		
* Preputial Gland	Cyst	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 96

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107500

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* 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	

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Minimal
* Kidney	Cyst	Moderate
	Nephropathy	Minimal
* Urin Bladder		

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 97

TRT#: 3

SEX: Male

DAY ON TEST: 729

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107501

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-21]			
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 98

TRT#: 3

SEX: Male

DAY ON TEST: 730

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107502

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow	Hemangiosarcoma	
* Kidney	Nephropathy	Minimal
* Liver	Hemangiosarcoma	
	Hepatoblastoma	
	Hepatocellular Adenoma	
	Hepatocellular Carcinoma	
	Mixed Cell Focus	
[Hemangiosarcoma TGLS = 2-22,3-23,4-24]		
[Hepatoblastoma TGLS = 6-25]		
[Hepatocellular Adenoma TGLS = 5-6]		
[Hepatocellular Carcinoma TGLS = 6-25]		
[Mixed Cell Focus TGLS = 7-6]		
* Preputial Gland	Cyst	Moderate
	Inflammation	Chronic, Mild
* Spleen	Hemangiosarcoma	
[Hemangiosarcoma TGLS = 1-21]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 99	TRT#: 3	SEX: Male	DAY ON TEST: 437
	DOSE: 12500 PPM	DISP: Moribund Sacrifice	HISTO: 107503

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Kidney		Nephropathy	Moderate
* Liver	Centrilobular Hepatocyte	Necrosis Vacuolization Cytoplasmic	Mild Marked
* Lymph Node, Mandibular		Atrophy	Moderate
* Lymph Node, Mesenteric		Atrophy	Mild
* Preputial Gland		Inflammation	Chronic, Mild
* Spleen	Red Pulp	Atrophy	Moderate
[Atrophy TGLS = 1-6]			
* Stomach, Forestomach		Ulcer	Mild
* Stomach, Glandular		Erosion	Minimal
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

PRIMARY CAUSE OF DEATH - UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 100

TRT#: 3

SEX: Male

DAY ON TEST: 731

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107504

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Bone Marrow		Hyperplasia	Mild
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Preputial Gland		Cyst	Moderate
* Urin Bladder			

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 101

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107505

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Bone Marrow		Hyperplasia	Minimal
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Minimal
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Marked

[Cyst TGLS = 1-8]
[Inflammation TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 102

TRT#: 5

SEX: Male

DAY ON TEST: 460

DOSE: 25000 PPM

DISP: Natural Death

HISTO: 107506

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* 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

MISSING

* Gallbladder

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-21]		
* Lung	Hemorrhage	Mild

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 103

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107507

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
Peripheral Nerve	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	Spinal Cord	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Minimal
* Harderian Gland	Adenoma	
[Adenoma TGLS = 1-12]		
* Kidney	Nephropathy	Minimal
* Preputial Gland	Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 104

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107508

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Islets, Pancreatic		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver	Hepatocyte	Eosinophilic Focus	
		Vacuolization Cytoplasmic	Moderate
[Eosinophilic Focus TGLS = 1-21]			
* Preputial Gland		Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 105

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107509

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

* Gallbladder

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia Hyperplasia Hypertrophy	Mild Focal, Moderate Focal, Moderate
* Kidney		Cyst Nephropathy	Moderate Minimal
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Preputial Gland		Cyst Inflammation	Moderate Chronic, Mild

[Cyst TGLS = 1-8]

[Inflammation TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 106

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107510

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-------------------|--|------------------------------|----------|
| * Adrenal Cortex | Capsule | Adenoma | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Clear Cell Focus | |
| | | Hepatocellular Adenoma | |
| | [Hepatocellular Adenoma TGLS = 1-21] | | |
| * Lung | | Alveolar/Bronchiolar Adenoma | |
| | [Alveolar/Bronchiolar Adenoma TGLS = 2-22] | | |
| * Preputial Gland | | Cyst | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 107

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107511

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* 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

OBSERVATIONS

* Kidney	Nephropathy	Minimal
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 108

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107512

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* 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			

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Minimal
* Harderian Gland	Adenoma	
* Kidney	Nephropathy	Mild
* Lung	Alveolar/Bronchiolar Adenoma	
	Infiltration Cellular	Histiocyte, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 109

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107513

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* 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			

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-21]		
* Spleen	Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 110

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107514

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* 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

OBSERVATIONS

* Kidney	Cyst	Moderate
	Nephropathy	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 111

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107515

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Pituitary Gland

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Skin	Cyst Epithelial Inclusion	

[Cyst Epithelial Inclusion TGLS = 1-21]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 112

TRT#: 5

SEX: Male

DAY ON TEST: 663

DOSE: 25000 PPM

DISP: Natural Death

HISTO: 107516

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Ileum	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea			

MISSING

* Adrenal Medulla	* Gallbladder	* Intestine Large, Rectum	* Lymph Node, Mesenteric
* Pituitary Gland			

AUTO PRECLUDES DIAG.

* Bone Marrow	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Pancreas	* Spleen	* Urinary Bladder	

OBSERVATIONS

* Kidney	Nephropathy	Mild
* Liver [Hepatocellular Carcinoma TGLS = 2-21]	Hepatocellular Carcinoma	
* Lung [Hepatocellular Carcinoma TGLS = 4-2,5-22,6-2,7-2,9-24,10-2]	Hepatocellular Carcinoma	Metastatic (Liver)
* Thymus	Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 113

TRT#: 5

SEX: Male

DAY ON TEST: 712

DOSE: 25000 PPM

DISP: Natural Death

HISTO: 107517

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

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

INSUFFICIENT TISSUE

* Pituitary Gland

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Kidney	Nephropathy	Minimal
* Liver	Cholangiocarcinoma	
	Necrosis	Focal, Moderate
[Cholangiocarcinoma TGLS = 2-21]		
* Lung	Thrombosis	Mild
* Pancreas	Cholangiocarcinoma	Metastatic (Liver)
Note: THE METASTATIC CHOLANGIOCARCINOMA IS PRESENT IN PANCREAS ON SLIDES 4 AND 5.		
* Preputial Gland	Cyst	Moderate
[Cyst TGLS = 1-8]		
* Spleen	Hematopoietic Cell Proliferation	Moderate
* Stomach, Glandular	Erosion	Mild
* Thymus	Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Liver Cholangiocarcinoma

Animal Note: METASTATIC CHOLANGIOCARCINOMA IS PRESENT IN MESENTERY ON SLIDE 7.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 114

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107518

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|---|--------------|-----------------|
| * Adrenal Cortex | Adenoma | |
| | Hyperplasia | Focal, Moderate |
| * Kidney | Nephropathy | Minimal |
| * Preputial Gland | Inflammation | Chronic, Mild |
| [Inflammation TGLS = 1-8] | | |
| * Urin Bladder | | |
| Note: INFUSION ARTIFACT IN URINARY BLADDER. | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 115

TRT#: 5

SEX: Male

DAY ON TEST: 638

DOSE: 25000 PPM

DISP: Natural Death

HISTO: 107519

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Intestine Small, Duodenum

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Kidney	Hydronephrosis Nephropathy	Mild Minimal
[Hydronephrosis TGLS = 4-5]		
* Lung	Carcinoma	Metastatic (Skin)
* Preputial Gland	Cyst Inflammation	Moderate Chronic, Moderate
[Cyst TGLS = 1-8]		
[Inflammation TGLS = 1-8]		
* Prostate	Inflammation	Chronic, Moderate
* Skin	Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 2-21]		
* Spleen	Hematopoietic Cell Proliferation	Mild
* Urinary Bladder	Dilatation	

PRIMARY CAUSE OF DEATH

- Skin Squamous Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 116

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107520

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Adenoma	
* Kidney	Metaplasia	Osseous, Mild
	Nephropathy	Minimal
* Preputial Gland	Carcinoma	
[Carcinoma TGLS = 1-8]		
* Thymus	Cyst	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 117

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107521

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Gallbladder
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Pituitary Gland
- * Skin
- * Testes
- * Urinary Bladder

- * Adrenal Medulla
- * Epididymis
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Prostate
- * Spleen
- * Thymus

- * Bone
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Liver
- * Nose
- * Salivary Glands
- * Stomach, Forestomach
- * Thyroid Gland

- * Bone Marrow
- * Eye
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Pancreas
- * Seminal Vesicle
- * Stomach, Glandular
- * Trachea

OBSERVATIONS

- * Kidney
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Preputial Gland
- * Urin Bladder

- Metaplasia
- Nephropathy
- Hyperplasia
- Cyst
- Cyst

- Osseous, Minimal
- Minimal
- Lymphoid, Mild
- Moderate
- Moderate

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 118

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107522

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	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Harderian Gland	Adenoma	
* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Adenoma	
	Hepatocellular Carcinoma	
[Hepatocellular Adenoma TGLS = 1-6]		
[Hepatocellular Carcinoma TGLS = 2-21]		
* Preputial Gland	Cyst	Moderate
* Spleen	Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 119

TRT#: 5

SEX: Male

DAY ON TEST: 657

DOSE: 25000 PPM

DISP: Natural Death

HISTO: 107523

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

* Gallbladder

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Bone Marrow		Hyperplasia	Minimal
* Heart		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
[Alveolar/Bronchiolar Carcinoma TGLS = 6-12]			
* Kidney		Nephropathy	Minimal
* Liver		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
	Centrilobular	Necrosis	Mild
[Necrosis TGLS = 2-6]			
* Lung		Alveolar/Bronchiolar Carcinoma	Multiple
[Alveolar/Bronchiolar Carcinoma TGLS = 4-2]			
Lymph Node	Mediastinal	Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
[Alveolar/Bronchiolar Carcinoma TGLS = 5-3]			
Mesentery		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
[Alveolar/Bronchiolar Carcinoma TGLS = 1-21]			
* Pancreas		Cyst	Moderate
Skeletal Muscle		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
[Alveolar/Bronchiolar Carcinoma TGLS = 7-22]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 119

TRT#: 5

SEX: Male

DAY ON TEST: 657

DOSE: 25000 PPM

DISP: Natural Death

HISTO: 107523

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

Animal Note: METASTATIC ALVEOLAR/BRONCHIOLAR CARCINOMA PRESENT IN SOFT TISSUE ADJACENT TO SALIVARY GLAND ON SLIDE 8.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 120

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107524

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Cyst	Moderate
	Nephropathy	Minimal
* Lymph Node, Mesenteric	Hemorrhage	Minimal
* Preputial Gland	Cyst	Moderate
	Inflammation	Chronic, Mild
* Spleen	Hemangiosarcoma	
[Hemangiosarcoma TGLS = 1-21]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 121

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107525

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Clear Cell Focus	
* Lung	Hemorrhage	Minimal
* Preputial Gland	Cyst	Moderate
	Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 122

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107526

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Intestine Small, Jejunum		Carcinoma	
[Carcinoma TGLS = 6-24]			
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
		Hepatocellular Carcinoma	Multiple
		Necrosis	Focal, Moderate
[Hepatocellular Adenoma TGLS = 5-23]			
[Hepatocellular Carcinoma TGLS = 1-21,3-6]			
[Necrosis TGLS = 4-22]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Spleen		Hematopoietic Cell Proliferation	Marked
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 123

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107527

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 2-21]			
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Preputial Gland		Inflammation	Chronic, Mild
[Inflammation TGLS = 1-8]			
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 124

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107528

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* 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	* Lymph Node, Mandibular
* Lymph Node, Mesenteric	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Prostate	* Salivary Glands	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
		Hypertrophy	Focal, Minimal
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Adenoma	
[Adenoma TGLS = 4-12]			
* Kidney		Metaplasia	Osseous, Mild
		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hemangiosarcoma	
[Eosinophilic Focus TGLS = 2-6]		Necrosis	Focal, Moderate
[Hemangiosarcoma TGLS = 3-21]			
* Lung		Alveolar/Bronchiolar Adenoma	
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Preputial Gland		Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 1-6]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 125

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107529

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* 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

* Lymph Node, Mesenteric

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow	Hyperplasia	Mild
* Kidney	Metaplasia	Osseous, Moderate
	Nephropathy	Minimal
* Liver	Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-21]		
* Lung	Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 2-22]		
* Spleen	Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

Animal Note: MILD TO MODERATE PERIARTERITIS IN BLOOD VESSELS ON SLIDES 4 (MESENTERY) AND 12 (HEART); NOT TABULATED.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 126

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107530

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 2-21]		
* Lung	Alveolar/Bronchiolar Carcinoma	
[Alveolar/Bronchiolar Carcinoma TGLS = 3-22]	Infiltration Cellular	Histiocyte, Moderate
* Preputial Gland	Cyst	Moderate
[Cyst TGLS = 1-8]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 127

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107531

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|-----------------------------|-----|--------------|----------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Minimal |
| * Kidney | | Nephropathy | Minimal |
| Mesentery | Fat | Necrosis | Mild |
| [Necrosis TGLS = 2-21] | | | |
| * Preputial Gland | | Inflammation | Chronic, Mild |
| [Inflammation TGLS = 1-8] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 128

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107532

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* 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	

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Kidney	Nephropathy	Minimal
* Urin Bladder		

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 129

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107533

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Hypertrophy	Focal, Moderate
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 1-21]			
* Preputial Gland		Cyst	Moderate
* Spleen	Lymph Follic	Hyperplasia	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 130

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107534

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* 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	

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Minimal
* Kidney	Nephropathy	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 131

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107535

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Adenoma	
		Hypertrophy	Focal, Moderate
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
	[Alveolar/Bronchiolar Carcinoma TGLS = 1-21]		
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Moderate
* Stomach, Forestomach		Diverticulum	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 132

TRT#: 5

SEX: Male

DAY ON TEST: 659

DOSE: 25000 PPM

DISP: Natural Death

HISTO: 107536

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Adenoma	
[Adenoma TGLS = 15-12]			
* Kidney		Nephropathy	Minimal
* Liver		Cyst	Moderate
		Hepatocellular Carcinoma	
Note: LIVER CYSTS ARE PRESENT ON SLIDES 6 AND 22.			
[Cyst TGLS = 4-22]			
[Hepatocellular Carcinoma TGLS = 1-21]			
* Lung		Carcinoma	Multiple
[Carcinoma TGLS = 9-2,10-26,11-2,12-2,13-2,14-2]			
Lymph Node	Mediastinal	Carcinoma	Metastatic (Lung)
[Carcinoma TGLS = 7-24]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate
		Carcinoma	Metastatic (Lung)

PRIMARY CAUSE OF DEATH

- Lung Carcinoma

CONTRIBUTORY CAUSE OF DEATH

- Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 133

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107537

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
* Lymph Node, Mandibular		Pigmentation	Moderate
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Mild

[Cyst TGLS = 1-8]

[Inflammation TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 134

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107538

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Small, Jejunum [Hyperplasia TGLS = 1-3]		Hyperplasia	Lymphoid, Minimal
* Kidney		Cyst	Moderate
		Infiltration Cellular	Lymphocyte, Marked
		Lymphoma Malignant	
		Nephropathy	Minimal
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Parathyroid Gland		Cyst	Moderate
* Preputial Gland		Cyst	Moderate
* Spleen	Lymph Follic	Hyperplasia	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 135

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107539

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Cyst	Moderate
		Nephropathy	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-21]			
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Moderate
* Thymus		Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 136

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107540

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Adenoma	
	Hepatocellular Carcinoma	
[Hepatocellular Adenoma TGLS = 1-21]		
[Hepatocellular Carcinoma TGLS = 2-22]		
* Preputial Gland	Cyst	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 137

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107541

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Mild
* Skin	Subcut Tiss	Fibrous Histiocytoma	
[Fibrous Histiocytoma TGLS = 1-21]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 138

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107542

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * 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 |
| * Lymph Node, Mandibular | * Lymph Node, Mesenteric | * Mammary Gland | * Nose |
| * Pancreas | * Parathyroid Gland | * Prostate | * Salivary Glands |
| * Seminal Vesicle | * Skin | * Spleen | * Stomach, Forestomach |
| * Stomach, Glandular | * Testes | * Thymus | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|-------------------------|---------------|-----------------------|------------------|
| * Adrenal Cortex | | Hypertrophy | Focal, Mild |
| * Harderian Gland | | Adenoma | |
| [Adenoma TGLS = 1-12] | | | |
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Necrosis | Focal, Minimal |
| * Lung | | Infiltration Cellular | Histiocyte, Mild |
| | | Inflammation | Chronic, Mild |
| * Pituitary Gland | Pars Distalis | Hyperplasia | Focal, Mild |
| * Preputial Gland | | Cyst | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 139

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107543

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Epididymis
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* 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

* Thymus

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Angiectasis	Moderate
		Hyperplasia	Mild
* Intestine Large, Cecum		Edema	Mild
* Kidney		Nephropathy	Minimal
* Liver		Eosinophilic Focus	
		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLS = 1-21]		
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 140

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107544

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* 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

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Harderian Gland		Adenoma	
[Adenoma TGLS = 2-22]			
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
		Hepatocellular Carcinoma	
Note: BASOPHILIC FOCUS IS ON SLIDE 21.			
[Hepatocellular Carcinoma TGLS = 1-21]			
* Lung	Alveolar Epith	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 141

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107545

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* 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

OBSERVATIONS

* Kidney	Nephropathy	Minimal
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 142

TRT#: 5

SEX: Male

DAY ON TEST: 693

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 107546

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Intestine Small, Ileum	Epithelium	Hyperplasia	Mild
* Intestine Small, Jejunum	Epithelium	Hyperplasia	Mild
* Liver		Necrosis	Diffuse, Mild
* Lung		Foreign Body	
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
* Pancreas	Acinus	Cytoplasmic Alteration	Marked
* Preputial Gland		Inflammation	Chronic, Marked
* Thymus		Atrophy	Moderate
* Urin Bladder			

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH

- Preputial Gland Inflammation

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 143

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107547

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Hyperplasia	Focal, Minimal
* Bone Marrow	Hyperplasia	Mild
* Kidney	Infiltration Cellular	Lymphocyte, Moderate
	Metaplasia	Osseous, Minimal
	Nephropathy	Minimal
* Preputial Gland	Cyst	Moderate
	Inflammation	Chronic, Minimal

[Cyst TGLS = 1-8]

[Inflammation TGLS = 1-8]

* Urin Bladder

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 144

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107548

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Brain	Infiltration Cellular	Lymphoid, Minimal
* Esophagus		
Note: ESOPHAGUS IS ON SLIDE 4 WITH STOMACH SECTION.		
* Kidney	Infiltration Cellular	Lymphocyte, Mild
	Nephropathy	Minimal
* Liver	Hepatocellular Carcinoma	Multiple
	Infiltration Cellular	Mixed Cell, Mild
	Thrombosis	Moderate
[Hepatocellular Carcinoma TGLS = 1-6,2-21]		
* Lung	Hepatocellular Carcinoma	Metastatic (Liver)
Note: METASTATIC HEPATOCELLULAR CARCINOMA IS PRESENT IN LUNG ON SLIDES 2 AND 22.		
[Hepatocellular Carcinoma TGLS = 3-22]		
* Lymph Node, Mandibular	Hyperplasia	Lymphoid, Mild
* Spleen	Hematopoietic Cell Proliferation	Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 145

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107549

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Spleen	Lymph Follic	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 146

TRT#: 5

SEX: Male

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107550

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|----------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Epididymis | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * Heart | * Intestine Large, Cecum |
| * Intestine Large, Colon | * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum |
| * Intestine Small, Jejunum | * Islets, Pancreatic | * Lung | * Lymph Node, Mandibular |
| * 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 | |

OBSERVATIONS

- | | | |
|----------|------------------|---------|
| * Kidney | Nephropathy | Minimal |
| * Liver | Clear Cell Focus | |

[Clear Cell Focus TGLS = 1-21]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 147

TRT#: 5

SEX: Male

DAY ON TEST: 730

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107551

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Hyperplasia	Focal, Minimal
* Kidney	Nephropathy	Minimal
* Preputial Gland	Cyst	Moderate
* Thymus	Cyst	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 148

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107552

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Carcinoma	
	Necrosis	Focal, Minimal
[Hepatocellular Carcinoma TGLS = 1-21]		
* Preputial Gland	Cyst	Moderate
	Inflammation	Chronic, Minimal
* Spleen	Hematopoietic Cell Proliferation	Moderate
* Thymus		

Note: THYMUS IS PRESENT ON SLIDE 12.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 149

TRT#: 5

SEX: Male

DAY ON TEST: 731

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107553

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Lung	Hemorrhage	Minimal
* Lymph Node, Mesenteric	Hematopoietic Cell Proliferation	Mild
	Hyperplasia	Lymphoid, Mild
* Preputial Gland	Cyst	Moderate
	Inflammation	Chronic, Mild
* Salivary Glands	Infiltration Cellular	Lymphocyte, Moderate
* Thymus	Cyst	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 150

TRT#: 5

SEX: Male

DAY ON TEST: 729

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107554

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
	[Alveolar/Bronchiolar Carcinoma TGLS = 1-2]	Infiltration Cellular	Histiocyte, Moderate
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 151

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107555

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Lymph Node, Mesenteric
--------------------------	--------------------------

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Urin Bladder			

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 152

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107556

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | | |
|--|----------------|--------------------------|----------|
| * Kidney | | Nephropathy | Minimal |
| * Liver | | Hepatocellular Carcinoma | |
| [Hepatocellular Carcinoma TGLS = 1-21] | | | |
| * Lung | Alveolar Epith | Hyperplasia | Mild |
| * Thymus | | Cyst | Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 153

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107557

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Adrenal Cortex		Adenoma	
* Kidney		Nephropathy	Minimal
* Liver		Hemangiosarcoma	
[Hemangiosarcoma TGLS = 1-21]			
* Lung		Hemorrhage	Minimal
	Alveolar Epith	Hyperplasia	Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 154

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107558

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Moderate
* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Liver		Basophilic Focus	
		Eosinophilic Focus	
[Basophilic Focus TGLS = 1-21]			
* Preputial Gland		Inflammation	Chronic, Moderate
* Spleen	Lymph Follic	Hyperplasia	Moderate
		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 155

TRT#: 7

SEX: Male

DAY ON TEST: 693

DOSE: 50000 PPM

DISP: Moribund Sacrifice

HISTO: 107559

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* 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	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Testes	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Bone Marrow		Hyperplasia	Mild
* Epididymis		Granuloma Sperm	Moderate
[Granuloma Sperm TGLS = 3-7]			
* Heart		Cardiomyopathy	Minimal
* Kidney		Nephropathy	Minimal
Mesentery	Fat	Necrosis	Minimal
[Necrosis TGLS = 4-21]			
* Pancreas	Acinus	Cytoplasmic Alteration	Marked
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Mild
[Cyst TGLS = 1-8]			
[Inflammation TGLS = 1-8]			
* Stomach, Glandular		Ulcer	Moderate
Note: GLANDULAR STOMACH LESION (ULCER) IS PRESENT ONLY ON SLIDE 22.			
[Ulcer TGLS = 6-22]			
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 156

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107560

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* Lymph Node, Mesenteric	* Mammary Gland	* 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

* Lymph Node, Mandibular

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Preputial Gland	Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 157

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107561

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 158

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107562

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Minimal
		Infiltration Cellular	Histiocyte, Minimal
	[Alveolar/Bronchiolar Carcinoma TGLS = 1-2]		
* Urin Bladder			
	Note: INFUSION ARTIFACT IN URINARY BLADDER.		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 159

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107563

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney	Renal Tubule	Hyperplasia	Minimal
	Renal Tubule	Nephropathy	Minimal
		Pigmentation	Mild
* Liver		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLS = 1-21]		
* Lung		Alveolar/Bronchiolar Adenoma	
	[Alveolar/Bronchiolar Adenoma TGLS = 2-22]		
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 160

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107564

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
* 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		

MISSING

* Lymph Node, Mesenteric

OBSERVATIONS

* Harderian Gland	Adenoma	
* Kidney	Cyst	Moderate
	Nephropathy	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 161

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107565

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone Marrow | * Brain |
| * Epididymis | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lung | * Lymph Node, Mandibular |
| * Lymph Node, Mesenteric | * Mammary Gland | * 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 | | |

OBSERVATIONS

- | | | | |
|---|--------------|---------------|----------|
| * Bone | Femur | Osteopetrosis | Moderate |
| Note: THE OSTEOPETROSIS LESION CONSISTS OF A WEDGE-SHAPED AREA OF BONE EXTENDING THROUGH EPIPHYSIS INTO THE MEDULLARY CAVITY. | | | |
| * Kidney | | Nephropathy | Minimal |
| * Spleen | Lymph Follic | Atrophy | Mild |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 162

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107566

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mandibular		Pigmentation	Moderate
* Pancreas	Acinus	Cytoplasmic Alteration	Mild
* Preputial Gland		Inflammation	Chronic, Moderate
* Spleen		Hemangiosarcoma	
[Hemangiosarcoma TGLS = 2-6]			
* Testes	Germinal Epith	Atrophy	Marked
	Interstit Cell	Hyperplasia	Moderate
[Atrophy TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 163

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107567

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* 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	

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
		Hypertrophy	Focal, Moderate
* Kidney		Nephropathy	Minimal
Tissue NOS		Hemangiosarcoma	

Note: THE HEMANGIOSARCOMA IS IN MEDIASTINAL TISSUE ADJACENT TO THYMUS ON SLIDE 3.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 164

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107568

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	* Seminal Vesicle
* Skin	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Thymus

OBSERVATIONS

* Eye		Cataract	Moderate
[Cataract TGLS = 1-44]			
* Harderian Gland		Carcinoma	
[Carcinoma TGLS = 2-12]			
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Salivary Glands		Atrophy	Minimal
* Spleen	Lymph Follic	Atrophy	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Milk thistle extract
 CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
 Time Report Requested: 22:45:37
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 165

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107569

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
		Hyperplasia	Focal, Mild
* Kidney		Cyst	Moderate
	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Minimal
[Cyst TGLS = 1-21]			
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 166

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107570

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Minimal
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Minimal
* Liver		Mixed Cell Focus	
* Preputial Gland		Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 167

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107571

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Preputial Gland	Cyst	Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 168

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107572

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Liver
- * Mammary Gland
- * Pituitary Gland
- * Seminal Vesicle
- * Stomach, Glandular
- * Trachea

- * Bone
- * Eye
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Nose
- * Preputial Gland
- * Skin
- * Testes
- * Urinary Bladder

- * Brain
- * Gallbladder
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Pancreas
- * Prostate
- * Spleen
- * Thymus

- * Epididymis
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Salivary Glands
- * Stomach, Forestomach
- * Thyroid Gland

OBSERVATIONS

- * Adrenal Cortex
- * Bone Marrow
- * Kidney

- Degeneration
- Hyperplasia
- Hyperplasia
- Nephropathy

- Fatty, Minimal
- Focal, Mild
- Minimal
- Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 169

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107573

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* 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	

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Mild
* Kidney	Nephropathy	Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 170

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107574

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Preputial Gland		Cyst	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 171

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107575

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Adenoma	
* Kidney	Nephropathy	Minimal
* Liver	Mixed Cell Focus	
[Mixed Cell Focus TGLS = 1-21]		
* Preputial Gland	Inflammation	Chronic, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 172

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107576

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Kidney	Nephropathy	Minimal
* Preputial Gland	Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 173

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107577

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Islets, Pancreatic		Carcinoma	
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-21]			
* Lung		Hemorrhage	Minimal
Mesentery		Carcinoma	Metastatic (Islets, Pancreatic)
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
Peripheral Nerve		Atrophy	Minimal
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 174

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107578

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Stomach, Forestomach	* Stomach, Glandular
* Testes	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Adenoma	
[Adenoma TGLS = 2-12]			
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-21]			
* Lung		Hepatocellular Carcinoma	Metastatic (Liver)
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Preputial Gland		Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 175

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107579

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Epididymis	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* 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	* 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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Heart		Cardiomyopathy	Minimal
* Islets, Pancreatic		Adenoma	
* Kidney	Renal Tubule	Hyperplasia	Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	Multiple
	[Hepatocellular Adenoma TGLS = 2-22,3-23]		
Mesentery		Hemorrhage	Marked
	[Hemorrhage TGLS = 1-21]		

PRIMARY CAUSE OF DEATH -

Animal Note: INSUFFICIENT AORTA (SLIDE 3).

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 176

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107580

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Epididymis
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Mammary Gland
- * Pituitary Gland
- * Skin
- * Testes
- * Urinary Bladder

- * Adrenal Medulla
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Liver
- * Nose
- * Prostate
- * Spleen
- * Thymus

- * Bone
- * Eye
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lymph Node, Mandibular
- * Pancreas
- * Salivary Glands
- * Stomach, Forestomach
- * Thyroid Gland

- * Brain
- * Gallbladder
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Seminal Vesicle
- * Stomach, Glandular
- * Trachea

MISSING

- * Preputial Gland

OBSERVATIONS

- * Bone Marrow
- * Kidney
- * Lung

Hyperplasia
 Nephropathy
 Alveolar/Bronchiolar Carcinoma
 Infiltration Cellular

Mild
 Minimal
 Histiocyte, Moderate

[Alveolar/Bronchiolar Carcinoma TGLS = 2-2]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 177

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107581

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Hypertrophy	Focal, Mild
* Bone Marrow	Hyperplasia	Minimal
* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Carcinoma	
[Alveolar/Bronchiolar Carcinoma TGLS = 1-21]		
* Preputial Gland	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 178

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107582

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Lung		Hemorrhage	Mild
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Preputial Gland		Cyst	Moderate
* Spleen	Lymph Follic	Hyperplasia	Mild
		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 179

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107583

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Infarct	Minimal
		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Histiocyte, Moderate
	[Alveolar/Bronchiolar Carcinoma TGLS = 1-21]		
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 180

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107584

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Minimal
* Liver		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 2-21]			
* Preputial Gland		Cyst	Moderate
[Cyst TGLS = 1-8]			
* Thymus		Cyst	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Urin Bladder			

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 181

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107585

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Glandular	* Testes	* Thymus
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Hyperplasia	Focal, Moderate
* Harderian Gland		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Minimal
* Lymph Node, Mesenteric		Atrophy	Mild
* Preputial Gland		Cyst	Moderate
		Inflammation	Chronic, Moderate
* Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 182

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107586

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Adrenal Cortex	Adenoma	
* Kidney	Nephropathy	Minimal
* Liver	Angiectasis	Marked
[Angiectasis TGLS = 1-21]		
* Lymph Node, Mandibular	Pigmentation	Moderate
* Preputial Gland	Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 183

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107587

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	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Prostate	* Salivary Glands
* Seminal Vesicle	* Skin	* Spleen	* Stomach, Forestomach
* Stomach, Glandular	* Testes	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Harderian Gland [Adenoma TGLS = 1-12]	Adenoma	
* Kidney	Nephropathy	Minimal
* Lung Note: IMPROPER INFUSION OF LUNGS.		
* Preputial Gland	Cyst Inflammation	Moderate Chronic, Mild
* Urin Bladder Note: INFUSION ARTIFACT IN URINARY BLADDER.		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 184

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107588

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Adrenal Medulla

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Parathyroid Gland		Cyst	Moderate
* Preputial Gland		Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 185

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107589

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Moderate
		Hyperplasia	Focal, Mild
* Kidney		Nephropathy	Minimal
* Preputial Gland		Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 186

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107590

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Epididymis
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Salivary Glands
- * Stomach, Forestomach
- * Thyroid Gland

- * Bone
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Liver
- * Mammary Gland
- * Pituitary Gland
- * Seminal Vesicle
- * Stomach, Glandular
- * Trachea

- * Bone Marrow
- * Eye
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Nose
- * Preputial Gland
- * Skin
- * Testes
- * Urinary Bladder

- * Brain
- * Gallbladder
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Pancreas
- * Prostate
- * Spleen
- * Thymus

OBSERVATIONS

- * Adrenal Cortex
- * Kidney

Hypertrophy
Cyst
Nephropathy

Focal, Mild
Moderate
Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 187

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107591

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Preputial Gland	Inflammation	Chronic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 188

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107592

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	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Preputial Gland	* Prostate
* Salivary Glands	* Seminal Vesicle	* Skin	* Spleen
* Stomach, Forestomach	* Stomach, Glandular	* Testes	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Harderian Gland [Adenoma TGLS = 1-12]	Adenoma	
* Kidney	Nephropathy	Minimal
* Thymus	Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 189

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107593

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Hyperplasia	Focal, Mild
* Bone Marrow	Hyperplasia	Mild
* Kidney	Nephropathy	Minimal
* Lung	Thrombosis	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 190

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107594

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Epididymis	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* 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

OBSERVATIONS

* Kidney	Nephropathy	Minimal
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 191

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107595

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Infarct	Mild
		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-21]			
* Lung		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Histiocyte, Marked
[Alveolar/Bronchiolar Carcinoma TGLS = 2-2]			
* Preputial Gland		Cyst	Moderate
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 3-22]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 192

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107596

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* 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, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Preputial Gland
* Prostate	* Salivary Glands	* Seminal Vesicle	* Skin
* Spleen	* Stomach, Forestomach	* Stomach, Glandular	* Testes
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Adenoma	
[Adenoma TGLS = 1-12]			
* Kidney		Cyst	Moderate
		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 193

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107597

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

* Bone	* Thymus
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OBSERVATIONS

* Adrenal Cortex	Hyperplasia	Focal, Moderate
* Kidney	Nephropathy	Minimal
* Lymph Node, Mandibular	Hyperplasia	Lymphoid, Mild
* Pancreas	Cyst	Moderate
Tooth		

Note: CHRONIC ACTIVE INFLAMMATION OF MODERATE SEVERITY SURROUNDING INCISOR TOOTH (SLIDE 9); NOT TABULATED AS TOOTH IS NONPROTOCOL-REQUIRED TISSUE.

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 194

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107598

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Angiectasis	Minimal
* Preputial Gland	Cyst	Moderate
	Inflammation	Chronic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 195

TRT#: 7

SEX: Male

DAY ON TEST: 729

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107599

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 1-6]			
* Lung	Alveolar Epith	Hyperplasia	Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 196

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107600

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Epididymis
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Parathyroid Gland
- * Seminal Vesicle
- * Stomach, Glandular
- * Trachea

- * Bone
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Liver
- * Mammary Gland
- * Pituitary Gland
- * Skin
- * Testes
- * Urinary Bladder

- * Bone Marrow
- * Eye
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Nose
- * Prostate
- * Spleen
- * Thymus

- * Brain
- * Gallbladder
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Pancreas
- * Salivary Glands
- * Stomach, Forestomach
- * Thyroid Gland

OBSERVATIONS

- * Adrenal Cortex
- * Kidney
- * Preputial Gland

- Hypertrophy
- Nephropathy
- Cyst
- Inflammation

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

[Cyst TGLS = 1-8]

[Inflammation TGLS = 1-8]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 197

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107601

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Preputial Gland	Cyst	Moderate
	Inflammation	Chronic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 198

TRT#: 7

SEX: Male

DAY ON TEST: 730

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107602

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Kidney	Nephropathy	Moderate
* Liver	Hepatocellular Carcinoma	
Note: A PORTION OF THE HEPATOCELLULAR CARCINOMA IS ON SLIDE 6. [Hepatocellular Carcinoma TGLS = 3-21]		
* Lymph Node, Mesenteric	Hemorrhage	Minimal
* Preputial Gland	Cyst	Moderate
* Spleen	Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 2-6]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 199

TRT#: 7

SEX: Male

DAY ON TEST: 731

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107603

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Mild
* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Alveolar/Bronchiolar Carcinoma	
		Hyperplasia	Moderate
Note: ALL OF THE LUNG LESIONS ARE PRESENT ON SLIDE 21. [Alveolar/Bronchiolar Carcinoma TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Thymus		Cyst	Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:37
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 200

TRT#: 7

SEX: Male

DAY ON TEST: 732

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107604

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
	Hyperplasia	Focal, Mild
* Kidney	Nephropathy	Minimal
* Lung	Alveolar/Bronchiolar Carcinoma	

[Alveolar/Bronchiolar Carcinoma TGLS = 1-21]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:37

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 201

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107605

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adren Cortex			
Note: FOCUS OF CHOLESTEROL CLEFTS IN ADRENAL CORTEX (CONSIDERED INCIDENTAL FINDING); MORPHOLOGY NOT AVAILABLE IN TDMS LEXICON.			
* Bone Marrow		Hyperplasia	Mild
* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Ovary		Cystadenoma	
		Hemorrhage	Mild
[Cystadenoma TGLS = 1-7]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular	Epithelium	Hyperplasia	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 202

TRT#: 2

SEX: Female

DAY ON TEST: 560

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 107606

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Lung	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	Spinal Cord	* Spleen	Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

MISSING

* Adrenal Medulla	* Lymph Node, Mandibular
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OBSERVATIONS

* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lymph Node, Mesenteric		Atrophy	Mild
* Ovary		Cyst	Moderate
[Cyst TGLS = 3-7]			
* Pancreas	Acinus	Cytoplasmic Alteration	Marked
Peripheral Nerve		Atrophy	Mild
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 203

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107607

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* 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	* Spleen
Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Kidney		Nephropathy	Minimal
* Lung		Hemorrhage	Minimal
* Ovary		Cyst	Moderate
		Hemorrhage	Mild
[Cyst TGLS = 2-7]			
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 204

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: 107608

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

Lymph Node	Mediastinal	Hemangiosarcoma	
[Hemangiosarcoma TGLS = 3-3]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Stomach, Glandular		Cyst	Moderate
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-7,2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 205

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 735
HISTO: 107609

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* 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

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Uterus	Hyperplasia	Cystic, Moderate
	Polyp Stromal	
[Hyperplasia TGLS = 1-7]		
[Polyp Stromal TGLS = 2-7]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 206

TRT#: 2

SEX: Female

DAY ON TEST: 618

DOSE: 0 PPM

DISP: Moribund Sacrifice

HISTO: 107610

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Nose	* Parathyroid Gland
Peripheral Nerve	* Salivary Glands	* Skin	Spinal Cord
* Spleen	Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

INSUFFICIENT TISSUE

* Ovary

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Brain		Compression	Marked
		Necrosis	Moderate
[Compression TGLS = 3-1]			
* Kidney		Nephropathy	Minimal
* Lymph Node, Mandibular		Atrophy	Mild
* Lymph Node, Mesenteric		Atrophy	Mild
* Mammary Gland		Hyperplasia	Mild
* Pancreas	Acinus	Cytoplasmic Alteration	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 4-1]			
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 207

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107611

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Liver | * Lung | * 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

- | | | |
|---|----------------------------------|----------------|
| * Bone Marrow | Hyperplasia | Moderate |
| * Kidney | Metaplasia | Osseous, Mild |
| * Lymph Node, Mandibular | Hyperplasia | Lymphoid, Mild |
| * Ovary | Cyst | Moderate |
| * Spleen | Hematopoietic Cell Proliferation | Moderate |
| * Urin Bladder | | |
| Note: INFUSION ARTIFACT IN URINARY BLADDER. | | |
| * Uterus | Hyperplasia | Cystic, Mild |
| [Hyperplasia TGLS = 1-7] | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 208

TRT#: 2

SEX: Female

DAY ON TEST: 717

DOSE: 0 PPM

DISP: Natural Death

HISTO: 107612

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Eye	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

MISSING

* Esophagus	* Lymph Node, Mandibular
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Lymph Node, Mesenteric
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Lung		Infiltration Cellular	Polymorphnuclr, Moderate
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Moderate
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 209

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107613

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Skin	Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Mild
* Kidney		Infiltration Cellular	Lymphocyte, Moderate
* Ovary		Hemorrhage	Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen	Lymph Follic	Hyperplasia	Moderate
* Thymus		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus		Hyperplasia	Cystic, Marked
		Polyp Stromal	

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 210

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: 107614

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Mixed Cell Focus	
[Mixed Cell Focus TGLS = 2-21]			
* Ovary		Hemorrhage	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
Stomach, Forestomach		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 3-4]			
* Thyroid Gland	Follicle	Cyst	Moderate
	Follicle	Degeneration	Focal, Mild
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 211

TRT#: 2

SEX: Female

DAY ON TEST: 736

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107615

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Lung	* Mammary Gland	* Nose
* Ovary	* Parathyroid Gland	* Skin	Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	* Uterus

MISSING

* Intestine Small, Ileum

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone		Fibro-Osseous Lesion	Minimal
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Adenoma	
* Kidney		Infarct	Mild
* Liver		Angiectasis	Moderate
		Lymphoma Malignant	
[Angiectasis TGLS = 6-22]			
Lymph Node	Pancreatic	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-7]			
[Lymphoma Malignant TGLS = 5-23]			
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Lymphoma Malignant	
[Hematopoietic Cell Proliferation TGLS = 3-6]			
[Lymphoma Malignant TGLS = 3-6,4-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 211	TRT#: 2	SEX: Female	DAY ON TEST: 736
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 107615

ORGAN AND ACCOUNTABLE SITE STATUS

* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal

PRIMARY CAUSE OF DEATH	-
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* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 212

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 736
HISTO: 107616

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Minimal
* Intestine Large, Cecum		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Ovary		Cyst	Moderate
[Cyst TGLS = 2-7]			
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 3-7,4-7]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 213

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 736
HISTO: 107617

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* 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	Hyperplasia	Mild
* Ovary	Cyst	Moderate
* Uterus	Hemorrhage	Mild
[Hyperplasia TGLS = 1-7]	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 214

TRT#: 2

SEX: Female

DAY ON TEST: 685

DOSE: 0 PPM

DISP: Natural Death

HISTO: 107618

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
* Lung		Infiltration Cellular	Lymphocyte, Mild
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 1-21]			
Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Stomach, Glandular		Erosion	Minimal
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 2-7,3-7]			

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: FOCUS OF ECTOPIC THYMUS ON SLIDE 8 NEAR SALIVARY GLAND.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 215	TRT#: 2	SEX: Female	DAY ON TEST: 736
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 107619

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Stomach, Glandular		Cyst	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 216

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 107620

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Clitoral Gland	* Gallbladder	* Ovary
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OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Minimal
* Bone Marrow		Hyperplasia	Mild
* Kidney		Lymphoma Malignant	
* Liver		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 3-5]			
* Pancreas		Lymphoma Malignant	
* Skin	Subcut Tiss	Hemangioma	
[Hemangioma TGLS = 4-8]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Lymphoma Malignant	
[Hematopoietic Cell Proliferation TGLS = 2-6]			
[Lymphoma Malignant TGLS = 2-6]			
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 217

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO: 107621

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* 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

* Adrenal Cortex	Capsule	Hyperplasia	Minimal
* Spleen	Lymph Follic	Hyperplasia	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Marked

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 218

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO: 107622

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* Lung	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	* Spleen	Stomach, Forestomach	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Ovary		Cyst	Moderate
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Stomach, Glandular		Cyst	Moderate
* Thymus		Hyperplasia	Lymphoid, Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-7,2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 219

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO: 107623

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Minimal
* Bone Marrow		Hyperplasia	Neutrophil, Marked
* Kidney		Nephropathy	Moderate
	[Nephropathy TGLS = 2-5]		
* Liver		Hematopoietic Cell Proliferation	Moderate
	[Hepatocellular Adenoma TGLS = 10-25]	Hepatocellular Adenoma	
* Lung		Alveolar/Bronchiolar Carcinoma	
	Alveolar Epith	Hyperplasia	Minimal
Lymph Node	Iliac	Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLS = 5-22]		
* Lymph Node, Mandibular		Hematopoietic Cell Proliferation	Moderate
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Moderate
* Mammary Gland		Hyperplasia	Moderate
	[Hyperplasia TGLS = 7-8,8-24]	Necrosis	Marked
	[Necrosis TGLS = 8-24]		
Mesentery	Fat	Necrosis	Marked
	[Necrosis TGLS = 4-21,6-23]		
* Ovary		Hemorrhage	Mild
	Note: ONE OVARY OBSCURED BY MESENTERIC NECROSIS.		
* Pancreas		Atrophy	Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 219	TRT#: 2	SEX: Female	DAY ON TEST: 732
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 107623

ORGAN AND ACCOUNTABLE SITE STATUS

* Spleen		Cyst	Marked
		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLS = 1-6]		
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus		Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLS = 3-7]		

PRIMARY CAUSE OF DEATH

-

Animal Note: PANCREAS AND ISLETS ARE ON SLIDE 21. MESENTERIC NECROSIS IS ATTRIBUTED TO RELEASE OF PANCREATIC ENZYMES INTO ABDOMINAL CAVITY.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 220

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO: 107624

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* 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	Infiltration Cellular	Lymphocyte, Moderate
* Ovary	Cyst	Moderate
* Uterus	Hyperplasia	Cystic, Moderate

[Hyperplasia TGLS = 2-7]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 221

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Natural Death

DAY ON TEST: 728

HISTO: 107625

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Large, Cecum
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
		Nephropathy	Minimal
* Liver	Centrilobular	Histiocytic Sarcoma	
		Necrosis	Marked
	[Histiocytic Sarcoma TGLS = 9-6,11-22]		
	[Necrosis TGLS = 9-6]		
Lymph Node	Deep Cervical	Hemorrhage	Moderate
	Deep Cervical	Pigmentation	Mild
	[Hemorrhage TGLS = 13-23]		
	[Pigmentation TGLS = 13-23]		
* Lymph Node, Mandibular		Histiocytic Sarcoma	
* Lymph Node, Mesenteric		Histiocytic Sarcoma	
* Mammary Gland		Hyperplasia	Mild
	[Hyperplasia TGLS = 3-8]		
* Ovary		Hemorrhage	Mild
		Histiocytic Sarcoma	
	[Hemorrhage TGLS = 7-7]		
Skeletal Muscle		Atrophy	Mild
		Inflammation	Acute, Moderate
	[Atrophy TGLS = 12-25]		

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 221	TRT#: 2	SEX: Female	DAY ON TEST: 728
	DOSE: 0 PPM	DISP: Natural Death	HISTO: 107625

ORGAN AND ACCOUNTABLE SITE STATUS

[Inflammation TGLS = 12-25]			
* Skin		Edema	Moderate
[Edema TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Marked
* Stomach, Glandular		Erosion	Moderate
[Erosion TGLS = 10-4]			
* Thymus		Atrophy	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus		Histiocytic Sarcoma	
		Hyperplasia	Cystic, Moderate
[Histiocytic Sarcoma TGLS = 6-24]			

PRIMARY CAUSE OF DEATH - Liver Histiocytic Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 222

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107626

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* 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

* Bone Marrow		Hyperplasia	Mild
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
* Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 1-6]			
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 223

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: 107627

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* 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	* Lymph Node, Mandibular	* Mammary Gland	* Nose
* Pancreas	* Skin	Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Harderian Gland		Adenoma	
[Adenoma TGLS = 6-12]			
* Kidney		Metaplasia	Osseous, Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
[Alveolar/Bronchiolar Adenoma TGLS = 3-2]		Infiltration Cellular	Lymphocyte, Moderate
Lymph Node	Mediastinal	Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 4-3]			
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Ovary		Cyst	Moderate
[Cyst TGLS = 2-7]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
[Hematopoietic Cell Proliferation TGLS = 5-6]			
* Thymus		Hyperplasia	Lymphoid, Moderate
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 223

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 735
HISTO: 107627

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 224

TRT#: 2

SEX: Female

DAY ON TEST: 644

DOSE: 0 PPM

DISP: Natural Death

HISTO: 107628

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Kidney	* Lung
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Ileum	* Islets, Pancreatic	* Pancreas
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Liver		Lymphoma Malignant	
Lymph Node	Iliac	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 8-23]			
[Lymphoma Malignant TGLS = 7-22]			
[Lymphoma Malignant TGLS = 6-3]			
[Lymphoma Malignant TGLS = 2-21]			
* Lymph Node, Mandibular		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 1-8]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 5-5]			
* Spleen		Hemorrhage	Marked
		Lymphoma Malignant	
[Hemorrhage TGLS = 4-24]			
[Lymphoma Malignant TGLS = 4-24]			
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus		Hyperplasia	Cystic, Marked

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 224

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Natural Death

DAY ON TEST: 644
HISTO: 107628

ORGAN AND ACCOUNTABLE SITE STATUS

[Hyperplasia TGLS = 3-7]

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Milk thistle extract
 CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
 Time Report Requested: 22:45:38
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 225 TRT#: 2 SEX: Female DAY ON TEST: 735
 DOSE: 0 PPM DISP: Terminal Sacrifice HISTO: 107629

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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
* Mammary Gland	* Nose	* Parathyroid Gland	* Pituitary Gland
* Skin	Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Harderian Gland	Lymphoma Malignant	
* Lymph Node, Mandibular	Lymphoma Malignant	
* Lymph Node, Mesenteric	Lymphoma Malignant	
* Ovary	Cyst	Moderate
* Pancreas	Lymphoma Malignant	
* Salivary Glands	Lymphoma Malignant	
* Spleen	Lymphoma Malignant	
* Thymus	Lymphoma Malignant	
* Urin Bladder		
Note: INFUSION ARTIFACT IN URINARY BLADDER.		
* Uterus	Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-7]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 226

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO: 107630

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	* Kidney
* 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

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Mild
* Eye		Cataract	Moderate
	Retina	Degeneration	Marked
* Harderian Gland		Carcinoma	
* Liver		Necrosis	Focal, Minimal
Skeletal Muscle		Rhabdomyosarcoma	
[Rhabdomyosarcoma TGLS = 1-21]			
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-6]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Moderate
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus		Hyperplasia	Cystic, Moderate
		Polyp Stromal	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 227

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107631

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Brain
- * Gallbladder
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lung
- * Nose
- * Pituitary Gland
- Stomach, Forestomach
- * Urinary Bladder

- * Adrenal Medulla
- * Clitoral Gland
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Ovary
- * Salivary Glands
- * Stomach, Glandular

- * Bone
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Lymph Node, Mesenteric
- * Pancreas
- * Skin
- * Thymus

- * Bone Marrow
- * Eye
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Liver
- * Mammary Gland
- * Parathyroid Gland
- * Spleen
- * Trachea

OBSERVATIONS

- * Thyroid Gland
- * Urin Bladder

Follicle

Degeneration

Focal, Moderate

Note: INFUSION ARTIFACT IN URINARY BLADDER.

- * Uterus

Hyperplasia

Cystic, Marked

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 228

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107632

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Ovary	Cyst	Moderate
[Cyst TGLS = 2-7]		
* Parathyroid Gland	Cyst	Moderate
* Stomach, Glandular	Cyst	Moderate
* Thymus	Hyperplasia	Lymphoid, Minimal
* Uterus	Angiectasis	Mild
	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 229

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Moribund Sacrifice

DAY ON TEST: 582
HISTO: 107633

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	* Intestine Small, Jejunum	* Islets, Pancreatic
* Mammary Gland	* Nose	* Parathyroid Gland	Peripheral Nerve
* Pituitary Gland	Skeletal Muscle	* Thyroid Gland	* Trachea

MISSING

* Gallbladder

OBSERVATIONS

* Adrenal Cortex		Lymphoma Malignant	
* Bone Marrow		Lymphoma Malignant	
* Brain		Hemorrhage	Moderate
		Lymphoma Malignant	
[Hemorrhage TGLS = 17-1]			
[Lymphoma Malignant TGLS = 17-1]			
* Eye		Lymphoma Malignant	
* Harderian Gland		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
* Liver		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 8-6,9-6]			
* Lung		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 16-2]			
Lymph Node	Iliac	Lymphoma Malignant	
	Inguinal	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4-7]			
[Lymphoma Malignant TGLS = 15-3]			
[Lymphoma Malignant TGLS = 13-23]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 229

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Moribund Sacrifice

DAY ON TEST: 582

HISTO: 107633

ORGAN AND ACCOUNTABLE SITE STATUS

[Lymphoma Malignant TGLS = 3-22]		
[Lymphoma Malignant TGLS = 2-21]		
[Lymphoma Malignant TGLS = 14-24]		
* Lymph Node, Mandibular	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 1-8]		
* Lymph Node, Mesenteric	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-5]		
* Ovary	Lymphoma Malignant	
* Pancreas	Lymphoma Malignant	
* Salivary Glands	Lymphoma Malignant	
* Skin	Edema	Mild
Spinal Cord	Hemorrhage	Moderate
	Lymphoma Malignant	
* Spleen	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 5-6,7-6]		
Stomach, Forestomach	Lymphoma Malignant	
* Stomach, Glandular	Lymphoma Malignant	
* Thymus	Lymphoma Malignant	
* Urinary Bladder	Lymphoma Malignant	
* Uterus	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 12-7]		

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 230

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107634

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* 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	Cystic, Mild
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PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 231

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107635

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* 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	

OBSERVATIONS

* Lymph Node, Mandibular	Pigmentation	Moderate
* Ovary	Cyst	Moderate
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Uterus	Hyperplasia	Cystic, Mild
	Polyp Stromal	

[Hyperplasia TGLS = 1-7]

[Polyp Stromal TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 232

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO: 107636

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* 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

* Intestine Large, Cecum	Edema	Mild
* Ovary	Cyst	Moderate
* Urin Bladder Note: INFUSION ARTIFACT IN URINARY BLADDER.		
* Uterus [Hyperplasia TGLS = 1-7]	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 233

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107637

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Lymph Node, Mandibular		Hemangiosarcoma	
Note: HEMANGIOSARCOMA IS ON SLIDES 8 AND 21.			
[Hemangiosarcoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 234

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107638

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	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	Stomach, Forestomach	* Stomach, Glandular
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Eye	Cornea	Hyperplasia Inflammation Carcinoma	Minimal Chronic, Minimal
* Harderian Gland			
[Carcinoma TGLS = 2-12]			
* Lung		Infiltration Cellular	Histiocyte, Marked
* Lymph Node, Mandibular		Ectasia Hyperplasia Hematopoietic Cell Proliferation	Marked Lymphoid, Mild Minimal
* Spleen		Hyperplasia	Lymphoid, Minimal
* Thymus		Degeneration	Focal, Moderate
* Thyroid Gland	Follicle	Hyperplasia	Cystic, Marked
* Uterus			
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 235

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 107639

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Capsule	Hyperplasia	Mild
* Bone		Fibro-Osseous Lesion	Minimal
* Kidney		Metaplasia	Osseous, Minimal
		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 5-21]			
* Lymph Node, Mandibular		Ectasia	Mild
		Hemorrhage	Minimal
* Ovary		Cyst	Moderate
[Cyst TGLS = 2-7]			
* Pancreas		Atrophy	Marked
[Atrophy TGLS = 3-7]		Cyst	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen	Lymph Follic	Hyperplasia	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH -

Animal Note: MARKED HYPERPLASIA AND HEMATOPOIETIC CELL PROLIFERATION OF PANCREATIC LYMPH NODE (SLIDE 7); NOT TABULATED AS PANCREATIC NODE IS NON PROTOCOL-REQUIRED TISSUE.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 236

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107640

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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

* Harderian Gland [Adenoma TGLS = 2-12]	Adenoma	
* Ovary	Cyst	Moderate
* Urin Bladder Note: INFUSION ARTIFACT IN URINARY BLADDER.		
* Uterus [Hyperplasia TGLS = 1-7]	Hyperplasia	Cystic, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 237

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107641

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* 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

* Adrenal Medulla		Hyperplasia	Moderate
* Bone		Fibro-Osseous Lesion	Moderate
* Bone Marrow		Hyperplasia	Mild
* Lung		Hemorrhage	Minimal
* Pituitary Gland	Pars Distalis	Adenoma	
	Pars Distalis	Hyperplasia	Focal, Minimal
[Adenoma TGLS = 1-1]			
* Uterus		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 238

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 735
HISTO: 107642

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Lymphoma Malignant	
Note: MALIGNANT LYMPHOMA IS PRESENT ON SLIDES 6 AND 21.			
[Lymphoma Malignant TGLS = 3-21]			
Lymph Node	Mediastinal	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4-3]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-6]			
* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 239

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 735

HISTO: 107643

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Minimal
* Harderian Gland		Adenoma	
[Adenoma TGLS = 4-12]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
Note: MANDIBULAR LYMPH NODE HYPERPLASIA IS SOMEWHAT SUGGESTIVE OF THYMIC METAPLASIA.			
* Ovary		Cyst	Moderate
	Thecal Cell	Hyperplasia	Mild
[Cyst TGLS = 2-7]			
* Spleen	Lymph Follic	Hyperplasia	Mild
* Thymus		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 240

TRT#: 2

SEX: Female

DAY ON TEST: 735

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107644

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* 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	* Trachea	

OBSERVATIONS

* Kidney		Infarct	Mild
* Lung		Edema	Mild
		Inflammation	Chronic, Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Moderate
* Uterus		Hyperplasia	Cystic, Moderate

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 241

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Natural Death

DAY ON TEST: 549
HISTO: 107645

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Thymus

AUTO PRECLUDES DIAG.

* Intestine Small, Ileum

OBSERVATIONS

* Bone		Osteosarcoma	
[Osteosarcoma TGLS = 9-22]			
* Bone Marrow		Hyperplasia	Moderate
* Intestine Small, Jejunum	Peyers Patch	Inflammation	Suppurative, Mild
* Kidney		Nephropathy	Minimal
* Lung		Osteosarcoma	Metastatic (Bone)
[Osteosarcoma TGLS = 2-23,3-2,4-25,5-2,6-24,7-2]			
* Mammary Gland		Hyperplasia	Mild
Mesentery		Osteosarcoma	Metastatic (Bone)
[Osteosarcoma TGLS = 8-21]			
* Spleen	Lymph Follic	Atrophy	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

- Bone Osteosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 242

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Natural Death

DAY ON TEST: 705

HISTO: 107646

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

INSUFFICIENT TISSUE

* Ovary

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet Infiltration Cellular Metaplasia	Minimal Lymphocyte, Mild Osseous, Minimal
* Liver	Kupffer Cell	Hyperplasia	Mild
* Lung		Inflammation	Chronic, Mild
* Lymph Node, Mandibular		Lymphoma Malignant	
* Skin	Subcut Tiss	Fibrosarcoma	
	[Fibrosarcoma TGLS = 1-21,1-21-1]		
* Spleen	Lymph Follic	Hematopoietic Cell Proliferation Hyperplasia	Moderate Moderate
	[Hematopoietic Cell Proliferation TGLS = 2-6]		
	[Hyperplasia TGLS = 2-6]		
* Thymus		Atrophy	Moderate
* Urin Bladder			
	Note: INFUSION ARTIFACT IN URINARY BLADDER.		
* Uterus		Hyperplasia	Cystic, Minimal

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 242

TRT#: 2

SEX: Female

DAY ON TEST: 705

DOSE: 0 PPM

DISP: Natural Death

HISTO: 107646

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

- Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH

- Lymph Node;Mandibular Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 243

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107647

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* 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 [Angiectasis TGLS = 2-7]	Angiectasis	Moderate
* Uterus [Hyperplasia TGLS = 1-7]	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 244

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO: 107648

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* 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
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Harderian Gland [Adenoma TGLS = 3-12]	Adenoma	
* Kidney	Nephropathy	Minimal
* Lymph Node, Mesenteric	Hyperplasia	Lymphoid, Marked
* Ovary	Cyst	Moderate
* Spleen	Hematopoietic Cell Proliferation	Mild
* Thymus	Hyperplasia	Lymphoid, Minimal
* Uterus [Hyperplasia TGLS = 1-7]	Hyperplasia	Cystic, Marked

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 245

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO: 107649

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* 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	* Thymus	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Marked
* Harderian Gland		Adenoma	
[Adenoma TGLS = 7-12]			
* Kidney		Nephropathy	Mild
* Liver		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4-6,4-25]		Necrosis	Focal, Moderate
[Necrosis TGLS = 4-6,4-25]			
* Lung		Lymphoma Malignant	
Lymph Node	Iliac	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-21]			
[Lymphoma Malignant TGLS = 6-3]			
[Lymphoma Malignant TGLS = 3-22]			
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 5-23]			
* Spleen		Hematopoietic Cell Proliferation	Marked
		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 245	TRT#: 2	SEX: Female	DAY ON TEST: 732
	DOSE: 0 PPM	DISP: Terminal Sacrifice	HISTO: 107649

ORGAN AND ACCOUNTABLE SITE STATUS

[Hematopoietic Cell Proliferation TGLS = 1-24]		Necrosis	Marked
[Lymphoma Malignant TGLS = 1-24]			
[Necrosis TGLS = 1-24]			
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 246

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO: 107650

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* 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
* Spleen	Lymph Follic	Hyperplasia	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus		Hyperplasia	Cystic, Marked

[Hyperplasia TGLS = 1-7,2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 247

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Terminal Sacrifice

DAY ON TEST: 732
HISTO: 107651

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Basophilic Focus	
* Lymph Node, Mandibular		Pigmentation	Moderate
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 248

TRT#: 2

DOSE: 0 PPM

SEX: Female

DISP: Terminal Sacrifice

DAY ON TEST: 732

HISTO: 107652

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Brain

* Heart

* Intestine Small, Duodenum

* Kidney

* Mammary Gland

* Pituitary Gland

* Thymus

* Adrenal Medulla

* Esophagus

* Intestine Large, Cecum

* Intestine Small, Ileum

* Liver

* Nose

* Skin

* Thyroid Gland

* Bone

* Eye

* Intestine Large, Colon

* Intestine Small, Jejunum

* Lymph Node, Mandibular

* Pancreas

Stomach, Forestomach

* Trachea

* Bone Marrow

* Harderian Gland

* Intestine Large, Rectum

* Islets, Pancreatic

* Lymph Node, Mesenteric

* Parathyroid Gland

* Stomach, Glandular

* Urinary Bladder

MISSING

* Clitoral Gland

INSUFFICIENT TISSUE

* Gallbladder

* Ovary

OBSERVATIONS

* Lung

Infiltration Cellular

Lymphocyte, Mild

* Lym Node Mand

Note: ECTOPIC THYMUS IN MANDIBULAR LYMPH NODE; MORPHOLOGY UNAVAILABLE ON TDMS.

* Salivary Glands

Infiltration Cellular

Lymphocyte, Moderate

* Spleen

Lymphoma Malignant

[Lymphoma Malignant TGLS = 2-6]

* Uterus

Hyperplasia

Cystic, Mild

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 249

TRT#: 2

SEX: Female

DAY ON TEST: 732

DOSE: 0 PPM

DISP: Terminal Sacrifice

HISTO: 107653

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* 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

* Lymph Node, Mesenteric [Hemorrhage TGLS = 1-21]	Hemorrhage	Marked
* Ovary	Hemorrhage	Moderate
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Uterus	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 250

TRT#: 2
DOSE: 0 PPM

SEX: Female
DISP: Natural Death

DAY ON TEST: 629
HISTO: 107654

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland	* Pituitary Gland
---------------------	-------------------

AUTO PRECLUDES DIAG.

* Gallbladder

OBSERVATIONS

* Adrenal Cortex		Lymphoma Malignant	
* Bone Marrow		Lymphoma Malignant	
* Harderian Gland		Lymphoma Malignant	
* Heart		Mineralization	Mild
* Kidney		Lymphoma Malignant	
* Liver		Lymphoma Malignant	
		Necrosis	Focal, Moderate
[Lymphoma Malignant TGLS = 3-6]			
[Necrosis TGLS = 3-6]			
Lymph Node	Iliac	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 8-22]			
[Lymphoma Malignant TGLS = 6-3]			
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 5-5]			
* Mammary Gland		Hyperplasia	Mild
Mesentery		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 250	TRT#: 2	SEX: Female	DAY ON TEST: 629
	DOSE: 0 PPM	DISP: Natural Death	HISTO: 107654

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-6]			
Stomach, Forestomach	Epithelium	Hyperplasia	Mild
		Lymphoma Malignant	
Note: FORESTOMACH LESIONS ARE PRESENT ON SLIDES 4 AND 23.			
[Hyperplasia TGLS = 9-23]			
[Lymphoma Malignant TGLS = 9-23]			
* Thymus		Atrophy	Moderate
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 7-7]			

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 251

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107655

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Ovary		Cyst	Moderate
[Cyst TGLS = 1-7]			
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen	Lymph Follic	Hyperplasia	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 252

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107656

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

* Clitoral Gland

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Minimal
* Bone Marrow		Hemangiosarcoma	
		Hyperplasia	Mild
* Lung		Alveolar/Bronchiolar Adenoma	
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hemangiosarcoma	
		[Hemangiosarcoma TGLS = 2-6]	
* Uterus		Hyperplasia	Cystic, Moderate
		[Hyperplasia TGLS = 1-7,3-7]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 253

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107657

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Intestine Small, Jejunum		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
	Lymph Follic	Hyperplasia	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus		Hyperplasia	Cystic, Moderate

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 254

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107658

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex

* Adrenal Medulla

* Bone

* Brain

* Clitoral Gland

* Esophagus

* Eye

* 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

* Skin

* Stomach, Glandular

* Thymus

* Thyroid Gland

* Trachea

* Urinary Bladder

OBSERVATIONS

* Bone Marrow

Hyperplasia

Mild

* Harderian Gland

Adenoma

Multiple

* Lung

Hemorrhage

Minimal

* Ovary

Cyst

Moderate

* Salivary Glands

Infiltration Cellular

Lymphocyte, Moderate

* Spleen

Hematopoietic Cell Proliferation

Minimal

Stomach, Forestomach

Diverticulum

* Uterus

Angiectasis

Mild

Hyperplasia

Cystic, Marked

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 255

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107659

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* 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

* Bone		Fibro-Osseous Lesion	Minimal
* Bone Marrow		Hyperplasia	Mild
* Lung	Alveolar Epith	Hyperplasia	Minimal
* Spleen		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
* Uterus		Hyperplasia	Cystic, Minimal

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 256

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107660

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Brain	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone		Fibro-Osseous Lesion	Minimal
* Bone Marrow		Hyperplasia	Mild
* Lung		Alveolar/Bronchiolar Carcinoma	
	[Alveolar/Bronchiolar Carcinoma TGLS = 2-21]	Infiltration Cellular	Histiocyte, Marked
* Ovary		Hemorrhage	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
	[Hematopoietic Cell Proliferation TGLS = 3-6]		
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Moderate
* Uterus		Hyperplasia	Cystic, Moderate
	[Hyperplasia TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 257

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107661

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lung	* Lymph Node, 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 Medulla	Hyperplasia	Minimal
* Bone Marrow	Hyperplasia	Mild
* Liver	Mixed Cell Focus	
[Mixed Cell Focus TGLS = 3-21]		
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Uterus	Hemangiosarcoma	
[Hemangiosarcoma TGLS = 2-7]	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 258

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107662

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Lymph Node, Mandibular	Pigmentation	Moderate
* Ovary	Hemorrhage	Mild
* Uterus	Hyperplasia	Cystic, Moderate

[Hyperplasia TGLS = 1-7,2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 259

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107663

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Lung	Alveolar/Bronchiolar Carcinoma Infiltration Cellular	Histiocyte, Marked
[Alveolar/Bronchiolar Carcinoma TGLS = 3-2]		
* Lymph Node, Mandibular	Hyperplasia Pigmentation	Lymphoid, Moderate Moderate
* Lymph Node, Mesenteric	Hyperplasia	Lymphoid, Moderate
* Urinary Bladder	Infiltration Cellular	Lymphocyte, Moderate
* Uterus	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-7,2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 260

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107664

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Lung		Hemorrhage	Minimal
* Lymph Node, Mandibular		Pigmentation	Moderate
* Ovary		Hemorrhage	Mild
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Thymus		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 261

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107665

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver	Angiectasis	Moderate
	Infiltration Cellular	Mixed Cell, Minimal
	Cystadenoma	
* Ovary [Cystadenoma TGLS = 4-7]		
* Stomach, Glandular	Cyst	Moderate
* Uterus [Hyperplasia TGLS = 2-7,3-7]	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 262

TRT#: 4

SEX: Female

DAY ON TEST: 675

DOSE: 12500 PPM

DISP: Natural Death

HISTO: 107666

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* 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	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	Stomach, Forestomach
* Trachea			

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Clitoral Gland		Inflammation	Chronic, Mild
* Kidney	Renal Tubule	Necrosis	Moderate
		Nephropathy	Minimal
* Liver	Centrilobular	Angiectasis	Moderate
	Hepatocyte	Necrosis	Mild
		Vacuolization Cytoplasmic	Moderate
[Angiectasis TGLS = 6-23]			
* Lung		Carcinoma	Metastatic (Mammary Gland)
* Mammary Gland		Carcinoma	
[Carcinoma TGLS = 1-21]			
* Pancreas		Atrophy	Marked
		Lymphoma Malignant	
* Spleen		Hematopoietic Cell Proliferation	Marked
		Lymphoma Malignant	
[Hematopoietic Cell Proliferation TGLS = 3-6]			
[Lymphoma Malignant TGLS = 4-22]			
* Stomach, Glandular		Erosion	Mild
* Thymus		Angiectasis	Mild
		Atrophy	Mild

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 262	TRT#: 4	SEX: Female	DAY ON TEST: 675
	DOSE: 12500 PPM	DISP: Natural Death	HISTO: 107666

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Urinary Bladder		Edema	Moderate
* Uterus		Angiectasis	Moderate
		Hyperplasia	Cystic, Moderate

[Angiectasis TGLS = 5-7]

PRIMARY CAUSE OF DEATH	- Mammary Gland Carcinoma
CONTRIBUTORY CAUSE OF DEATH	- Spleen Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 263

TRT#: 4

SEX: Female

DAY ON TEST: 450

DOSE: 12500 PPM

DISP: Moribund Sacrifice

HISTO: 107667

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Liver		Hematopoietic Cell Proliferation	Minimal
* Lung		Alveolar/Bronchiolar Carcinoma	
		Infiltration Cellular	Histiocyte, Marked
[Alveolar/Bronchiolar Carcinoma TGLS = 3-23]			
[Infiltration Cellular TGLS = 5-2,5-23]			
Skeletal Muscle		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
Note: METASTATIC TUMOR WAS DETACHED FROM DIAPHRAGM IN THE AVAILABLE SECTION.			
[Alveolar/Bronchiolar Carcinoma TGLS = 2-21]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 1-6]			
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
Tissue NOS		Alveolar/Bronchiolar Carcinoma	Metastatic (Lung)
Note: "TISSUE NOS" IS MEDIASTINUM.			
[Alveolar/Bronchiolar Carcinoma TGLS = 4-22]			

PRIMARY CAUSE OF DEATH - Lung Alveolar/Bronchiolar Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 264

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107668

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone		Fibro-Osseous Lesion	Minimal
* Liver		Clear Cell Focus	
* Lung		Hemorrhage	Mild
* Lymph Node, Mesenteric		Hematopoietic Cell Proliferation	Mild
		Hyperplasia	Lymphoid, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
		Polyp Stromal	

Note: UTERINE STROMAL POLYP ON SLIDE 21 IS MARKEDLY NECROTIC.

[Hyperplasia TGLS = 1-7]

[Polyp Stromal TGLS = 2-21]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 265

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107669

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Minimal
		Necrosis	Focal, Minimal
* Lymph Node, Mesenteric		Ectasia	Moderate
* Ovary		Hemorrhage	Mild
* Spleen	Lymph Follic	Hyperplasia	Moderate
* Stomach, Glandular		Cyst	Moderate
* Uterus		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 266

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107670

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* 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

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Mild
* Islets, Pancreatic		Adenoma	
* Kidney		Cyst	Moderate
		Infiltration Cellular	Lymphocyte, Mild
[Cyst TGLS = 2-21]			
* Spleen	Lymph Follic	Hyperplasia	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 267

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107671

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Clitoral Gland		Inflammation	Chronic, Mild
* Liver		Hematopoietic Cell Proliferation	Mild
* Pancreas	Acinus	Cytoplasmic Alteration	Marked
* Spleen		Hematopoietic Cell Proliferation	Moderate
Stom Forestom			
Note: A PORTION OF FORESTOMACH APPEARS TO BE REFLECTED OVER THE AREA ON HYPERPLASTIC GLANDULAR STOMACH.			
* Stomach, Glandular	Epithelium	Hyperplasia	Minimal
[Hyperplasia TGSL = 2-21]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus		Angiectasis	Moderate
		Hyperplasia	Cystic, Marked
		Inflammation	Chronic, Marked
[Hyperplasia TGSL = 1-7]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 268

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107672

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Intestine Small, Ileum		Lymphoma Malignant	
* Kidney		Nephropathy	Minimal
* Liver		Infiltration Cellular	Mixed Cell, Moderate
		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 5-6]			
Lymph Node	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 7-23]			
[Lymphoma Malignant TGLS = 4-22]			
* Lymph Node, Mandibular		Angiectasis	Mild
		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 3-21]			
* Ovary		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-7]			
* Pancreas		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-6]			
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 268

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107672

ORGAN AND ACCOUNTABLE SITE STATUS

* Uterus

Hyperplasia
Inflammation

Cystic, Marked
Chronic, Moderate

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 269

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107673

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* 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

* Bone Marrow		Hyperplasia	Mild
* Lung	Alveolar Epith	Hyperplasia	Mild
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-7,2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 270

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107674

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* 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

* Lung [Hyperplasia TGLS = 2-21]	Alveolar Epith	Hyperplasia	Mild
* Uterus [Hyperplasia TGLS = 1-7]		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 271

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 12500 PPM

DISP: Natural Death

HISTO: 107675

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Harderian Gland	* Heart
* Intestine Large, Rectum	* Liver	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	Stomach, Forestomach
* Trachea	* Urinary Bladder		

MISSING

* Lymph Node, Mandibular	* Thymus
--------------------------	----------

AUTO PRECLUDES DIAG.

* Adrenal Medulla	* Gallbladder	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mesenteric	* Pancreas	* Spleen
* Stomach, Glandular	* Thyroid Gland		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Lung		Rhabdomyosarcoma	Metastatic (Skeletal Muscle)
Lymph Node	Iliac	Hyperplasia	Lymphoid, Moderate
	Renal	Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 4-22]			
[Hyperplasia TGLS = 3-21]			
* Mammary Gland		Hyperplasia	Mild
* Nose		Inflammation	Chronic, Minimal
Skeletal Muscle		Rhabdomyosarcoma	
[Rhabdomyosarcoma TGLS = 5-23,6-24,6-24-1]			
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Rhabdomyosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 272

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107676

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* 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

* Adrenal Cortex		Cyst	
* Lung	Arteriole	Hypertrophy	Minimal
* Ovary		Angiectasis	Mild
	Interstit Cell	Hyperplasia	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
	Lymph Follic	Hyperplasia	Mild
* Uterus		Hyperplasia	Cystic, Moderate

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 273

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107677

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
* Ovary		Angiectasis	Moderate
		Cyst	Moderate
		Hemorrhage	Moderate
* Salivary Glands		Infiltration Cellular	Lymphocyte, Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 274

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107678

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Infiltration Cellular	Lymphocyte, Mild
* Lung		Infiltration Cellular	Lymphocyte, Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Stomach, Glandular		Carcinoma	
Note: THE CARCINOMA APPEARS TO BE IN AN EARLY STAGE.			
* Thymus		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus		Hyperplasia	Cystic, Minimal

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 275

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107679

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* 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

* Bone	Fibro-Osseous Lesion	Minimal
* Uterus	Hyperplasia	Cystic, Moderate

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 276

TRT#: 4

SEX: Female

DAY ON TEST: 406

DOSE: 12500 PPM

DISP: Natural Death

HISTO: 107680

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Kidney	* Liver	* Lung
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Ovary
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	Stomach, Forestomach
* Thymus	* Trachea	* Urinary Bladder	

AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lymph Node, Mesenteric	* Pancreas	* Spleen	* Stomach, Glandular
* Thyroid Gland			

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Skin	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 1-21]		
* Uterus	Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

- Skin Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
 Test Type: CHRONIC
 Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
 Test Compound: Milk thistle extract
 CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
 Time Report Requested: 22:45:38
 First Dose M/F: NA / NA
 Lab: SRI

ANIMAL ID: 277

TRT#: 4

SEX: Female

DAY ON TEST: 649

DOSE: 12500 PPM

DISP: Natural Death

HISTO: 107681

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Islets, Pancreatic
* Liver	* Lung	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	Stomach, Forestomach
* Stomach, Glandular	* Trachea	* Urinary Bladder	

AUTO PRECLUDES DIAG.

* Intestine Large, Cecum	* Intestine Small, Jejunum
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OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
Blood Vessel			
Note: MODERATE MINERALIZATION IN AORTA (SLIDE 3); NOT TABULATED AS BLOOD VESSEL IS NOT LISTED AS PROTOCOL-REQUIRED ON TDMS SCREEN.			
* Bone Marrow		Hyperplasia	Marked
* Brain		Lymphoma Malignant	
* Heart		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 8-12]			
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
		Lymphoma Malignant	
	Renal Tubule	Necrosis	Mild
		Nephropathy	Moderate
[Lymphoma Malignant TGLS = 3-21]			
[Necrosis TGLS = 4-5]			
[Nephropathy TGLS = 4-5]			
Lymph Node	Renal	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 9-22]			
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-5]			
* Mammary Gland		Hyperplasia	Minimal
* Nose		Lymphoma Malignant	

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 277	TRT#: 4	SEX: Female	DAY ON TEST: 649
	DOSE: 12500 PPM	DISP: Natural Death	HISTO: 107681

ORGAN AND ACCOUNTABLE SITE STATUS

* Pancreas		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-6]			
* Thymus		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 7-3]			
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 5-7]			

PRIMARY CAUSE OF DEATH - Spleen Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 278

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107682

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* 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	Fibro-Osseous Lesion	Minimal
* Kidney	Nephropathy	Minimal
* Ovary	Hemorrhage	Moderate
* Uterus	Hyperplasia	Cystic, Marked

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 279

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107683

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Esophagus
* Eye	* 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	* Salivary Glands
* Skin	* Spleen	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

MISSING

* Pituitary Gland

INSUFFICIENT TISSUE

* Clitoral Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone		Fibro-Osseous Lesion	Mild
* Harderian Gland		Adenoma	
* Ovary		Cyst	Moderate
		Hemorrhage	Mild
[Cyst TGLS = 1-7]			
Stomach, Forestomach	Epithelium	Hyperplasia	Mild
Note: THE HYPERPLASIA IS AT THE LIMITING RIDGE OF THE STOMACH.			
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 280

TRT#: 4

SEX: Female

DAY ON TEST: 664

DOSE: 12500 PPM

DISP: Natural Death

HISTO: 107684

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Nose	* Pancreas	* Pituitary Gland	* Salivary Glands
Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mesenteric	* Parathyroid Gland	* Thymus
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AUTO PRECLUDES DIAG.

* Gallbladder	* Intestine Small, Duodenum
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OBSERVATIONS

* Bone Marrow		Hemangiosarcoma Hyperplasia	Marked
* Esophagus		Note: MODERATE EDEMA IN SUBMUCOSA OF ESOPHAGUS; MORPHOLOGY UNAVAILABLE ON TDMS.	
* Heart		Mineralization	Mild
* Liver		Hemangiosarcoma Hematopoietic Cell Proliferation	Marked
[Hemangiosarcoma TGLS = 7-6]			
[Hematopoietic Cell Proliferation TGLS = 8-6]			
* Lymph Node, Mandibular		Pigmentation	Moderate
* Mammary Gland		Hyperplasia	Mild
* Ovary		Cyst	Moderate
[Cyst TGLS = 6-7]			
* Skin	Subcut Tiss	Hemangiosarcoma	
[Hemangiosarcoma TGLS = 1-8]			
* Spleen		Hemangiosarcoma Hematopoietic Cell Proliferation	Moderate
[Hemangiosarcoma TGLS = 4-21]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 280

TRT#: 4

SEX: Female

DAY ON TEST: 664

DOSE: 12500 PPM

DISP: Natural Death

HISTO: 107684

ORGAN AND ACCOUNTABLE SITE STATUS

* Urin Bladder

Note: INFUSION ARTIFACT IN URINARY BLADDER.

* Uterus

[Hyperplasia TGLS = 5-7]

Hyperplasia

Cystic, Marked

PRIMARY CAUSE OF DEATH

- Spleen Hemangiosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 281

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107685

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|--------------------------|---------------------------|-----------------------------|--------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Bone Marrow |
| * Brain | * Clitoral Gland | * Esophagus | * Eye |
| * Gallbladder | * Harderian Gland | * 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 | * Mammary Gland | * Nose |
| * Ovary | * Pancreas | * Parathyroid Gland | * Skin |
| Stomach, Forestomach | * Stomach, Glandular | * Thyroid Gland | * Trachea |
| * Urinary Bladder | | | |

OBSERVATIONS

- | | | | |
|---|---------------|-----------------------|--------------------|
| * Intestine Small, Jejunum
[Lymphoma Malignant TGLS = 2-3] | | Lymphoma Malignant | |
| * Pituitary Gland
[Adenoma TGLS = 3-1] | Pars Distalis | Adenoma | |
| * Salivary Glands | | Infiltration Cellular | Lymphocyte, Mild |
| * Spleen | Lymph Follic | Hyperplasia | Mild |
| * Thymus | | Hyperplasia | Lymphoid, Moderate |
| * Uterus
[Hyperplasia TGLS = 1-7] | | Hyperplasia | Cystic, Moderate |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 282

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107686

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* 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
* Ovary	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow	Hyperplasia	Mild
* Harderian Gland	Carcinoma	
[Carcinoma TGLS = 1-21]		
* Lung	Infiltration Cellular	Histiocyte, Moderate
* Nose	Carcinoma	Metastatic (Harderian Gland)
	Inflammation	Chronic, Moderate
* Uterus	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 283

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107687

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Ovary		Cyst	Moderate
* Skin	Subcut Tiss	Fibrosarcoma	
[Fibrosarcoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 284

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107688

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* 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	Cystic, Moderate
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[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 285

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107689

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Medulla		Hyperplasia	Minimal
* Bone Marrow		Lymphoma Malignant	
* Lung		Hemorrhage	Mild
		Lymphoma Malignant	
		Lymphoma Malignant	
* Lymph Node, Mesenteric			
Note: MESENTERIC LYMPH NODE IS ON SLIDE 3.			
* Ovary		Cyst	Moderate
* Spleen	Lymph Follic	Hyperplasia	Moderate
Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 286

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107690

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* 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
Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Minimal
* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Lung		Alveolar/Bronchiolar Adenoma	
		Alveolar/Bronchiolar Carcinoma	
[Alveolar/Bronchiolar Carcinoma TGLS = 2-21]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
	Lymph Follic	Hyperplasia	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 287

TRT#: 4

SEX: Female

DAY ON TEST: 371

DOSE: 12500 PPM

DISP: Moribund Sacrifice

HISTO: 107691

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Heart	Artery	Inflammation	Chronic Active, Moderate
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
Note: CYTOPLASMIC ALTERATION IS DEPLETION OF ZYMOGEN GRANULES.			
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

Animal Note: INFLAMMATION IN HEART IS PERIARTERITIS. MILD PERIARTERITIS ALSO PRESENT IN MESENTERY ON SLIDE 5.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 288	TRT#: 4	SEX: Female	DAY ON TEST: 733
	DOSE: 12500 PPM	DISP: Terminal Sacrifice	HISTO: 107692

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

Blood Vessel

Note: MARKED MINERALIZATION IN AORTA (SLIDE 3); NOT TABULATED SINCE BLOOD VESSEL IS NOT LISTED ON TDMS SCREEN AS PROTOCOL-REQUIRED TISSUE.

* Bone Marrow		Hyperplasia	Moderate
* Heart		Mineralization	Minimal
* Kidney		Mineralization	Mild
* Liver		Hematopoietic Cell Proliferation	Mild
	Kupffer Cell	Hyperplasia	Moderate
* Lung		Fibrosarcoma	Metastatic (Skin)
		Note: METASTATIC FIBROSARCOMA IS IN MEDIASTINAL AREA (ADJACENT TO PLEURA).	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Mild
* Mammary Gland		Hyperplasia	Moderate
		[Hyperplasia TGLS = 1-8]	
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Parathyroid Gland		Hyperplasia	Moderate
* Skin	Subcut Tiss	Fibrosarcoma	Multiple
		[Fibrosarcoma TGLS = 3-21,6-22,7-23]	
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Uterus		Hyperplasia	Cystic, Mild
		[Hyperplasia TGLS = 4-7]	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 288

TRT#: 4

SEX: Female

DAY ON TEST: 733

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107692

ORGAN AND ACCOUNTABLE SITE STATUS

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 289

TRT#: 4

SEX: Female

DAY ON TEST: 725

DOSE: 12500 PPM

DISP: Natural Death

HISTO: 107693

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

AUTO PRECLUDES DIAG.

* Intestine Small, Jejunum

OBSERVATIONS

* Bone Marrow	Hyperplasia	Marked
* Clitoral Gland	Inflammation	Chronic, Mild
* Heart	Cardiomyopathy	Mild
* Mammary Gland	Carcinoma	
	Hyperplasia	Minimal
[Carcinoma TGLS = 1-21]		
* Ovary	Hemorrhage	Mild
* Spleen	Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 3-6]		
* Uterus	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 4-7]		

PRIMARY CAUSE OF DEATH

- Mammary Gland Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 290

TRT#: 4

SEX: Female

DAY ON TEST: 736

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107694

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* 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		

OBSERVATIONS

* Ovary		Angiectasis	Mild
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-6]			
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 291

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107695

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* 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
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Salivary Glands	* Skin	* Spleen
Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Medulla		Pheochromocytoma Benign	
* Harderian Gland		Adenoma	
* Kidney		Nephropathy	Minimal
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 292

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107696

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Mild
* Kidney		Nephropathy	Minimal
Mesentery	Fat	Necrosis	Mild
[Necrosis TGLS = 1-21]			
* Ovary		Hemorrhage	Mild
* Parathyroid Gland		Cyst	Moderate
* Spleen	Lymph Follic	Hyperplasia	Mild
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 2-7,3-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 293

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107697

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Clitoral Gland
* 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
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
Stomach, Forestomach	* Stomach, Glandular	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Minimal
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Hyperplasia	Focal, Minimal
* Kidney		Lymphoma Malignant	
* Lung		Lymphoma Malignant	
Lymph Node	Mediastinal	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4-3]			
* Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 3-21]			
* Ovary		Cyst	Moderate
		Hemorrhage	Mild
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-6]			
* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 294

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107698

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* 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
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Intestine Large, Cecum		Edema	Mild
* Stomach, Glandular		Cyst	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 295

TRT#: 4

SEX: Female

DAY ON TEST: 735

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107699

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Minimal
* Liver		Infiltration Cellular	Lymphocyte, Mild
* Ovary		Hemorrhage	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
		Ectopic Thymus	Moderate
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 296

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107700

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-21]			
* Pituitary Gland	Pars Distalis	Adenoma	
* Stomach, Glandular		Cyst	Moderate
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 297

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107701

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Bone	Fibro-Osseous Lesion	Minimal
	Fibrosis	Minimal
* Ovary	Hemorrhage	Mild
* Salivary Glands	Infiltration Cellular	Lymphocyte, Moderate
* Spleen	Lymphoma Malignant	
* Thymus	Hyperplasia	Lymphoid, Minimal
* Uterus	Hyperplasia	Cystic, Moderate

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 298

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107702

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 2-21]		
* Ovary	Cyst	Moderate
[Cyst TGLS = 1-7]		
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Thymus	Lymphoma Malignant	

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 299

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107703

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Clitoral Gland

OBSERVATIONS

* Bone	Fibro-Osseous Lesion	Minimal
* Harderian Gland	Carcinoma	
[Carcinoma TGLS = 7-12]		
* Liver	Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 6-21]		
* Lung	Lymphoma Malignant	
* Lymph Node, Mandibular	Lymphoma Malignant	
* Lymph Node, Mesenteric	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 5-5]		
* Ovary	Cyst	Moderate
* Spleen	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 3-6]		
* Uterus	Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-7,2-7]		

PRIMARY CAUSE OF DEATH

-

Animal Note: THE MALIGNANT LYMPHOMA APPEARS TO BE IN AN EARLY STAGE.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 300

TRT#: 4

SEX: Female

DAY ON TEST: 732

DOSE: 12500 PPM

DISP: Terminal Sacrifice

HISTO: 107704

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Kidney		Lymphoma Malignant	
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Ovary	Corpus Luteum	Lymphoma Malignant	
[Hyperplasia TGLS = 2-7]		Hyperplasia	Mild
* Spleen		Hemangiosarcoma	
[Hemangiosarcoma TGLS = 1-6]		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 1-6]			
* Thymus		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 301

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107705

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Clitoral Gland
* Esophagus	* Eye	* 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	* Spleen
Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Bone	Fibro-Osseous Lesion	Minimal
* Harderian Gland	Adenoma	
* Lymph Node, Mesenteric	Lymphoma Malignant	
* Ovary		
Note: FOCUS IN ONE OVARY OF MODERATE NUMBERS OF PIGMENTED MACROPHAGES, MILD GRANULOMATOUS INFLAMMATION, AND MILD MINERALIZATION; CONSIDERED INCIDENTAL CHANGES.		
* Urinary Bladder	Infiltration Cellular	Lymphocyte, Mild
* Uterus	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 302

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107706

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone		Fracture	
[Fracture TGLS = 2-22]			
* Bone Marrow		Hyperplasia	Marked
* Kidney		Nephropathy	Minimal
* Liver	Kupffer Cell	Hyperplasia	Moderate
		Infiltration Cellular	Mixed Cell, Mild
* Lung		Thrombosis	Mild
Lymph Node	Iliac	Liposarcoma	Metastatic (Skin)
	Inguinal	Liposarcoma	Metastatic (Skin)
[Liposarcoma TGLS = 4-8]			
[Liposarcoma TGLS = 7-23]			
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Skin		Edema	Moderate
	Subcut Tiss	Liposarcoma	
[Edema TGLS = 3-8]			
[Liposarcoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 6-6]			
* Thymus		Atrophy	Moderate
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 303

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107707

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	Stomach, Forestomach	* Stomach, Glandular
* Trachea			

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Minimal
* Bone Marrow		Hyperplasia	Mild
* Liver		Infiltration Cellular	Mixed Cell, Minimal
* Lung		Infiltration Cellular	Lymphocyte, Moderate
* Ovary		Cyst	Moderate
[Cyst TGLS = 1-7]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Moderate
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus		Hyperplasia	Cystic, Mild
		Polyp Stromal	
[Hyperplasia TGLS = 2-7]			
[Polyp Stromal TGLS = 3-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 304

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107708

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lung
* Lymph Node, Mandibular	* Lymph Node, Mesenteric	* Mammary Gland	* Nose
* Pancreas	* Parathyroid Gland	* Skin	* Spleen
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Liver		Mixed Cell Focus	
* Ovary		Cyst	Moderate
[Cyst TGLS = 2-7]			
* Pituitary Gland	Pars Intermed	Adenoma	
[Adenoma TGLS = 4-1]			
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thymus		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 3-3]			
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 305

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107709

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* 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
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone	Fibro-Osseous Lesion	Minimal
* Harderian Gland	Adenoma	
[Adenoma TGLS = 2-12]		
* Kidney	Nephropathy	Minimal
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Thymus	Hyperplasia	Lymphoid, Minimal
* Uterus	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 306

TRT#: 6

SEX: Female

DAY ON TEST: 659

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 107710

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular	* Thymus
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OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Kidney	Renal Tubule	Pigmentation	Minimal
* Lung		Infiltration Cellular	Histiocyte, Mild
* Lymph Node, Mesenteric		Atrophy	Mild
Oral Mucosa		Squamous Cell Carcinoma	
[Squamous Cell Carcinoma TGLS = 2-21]			
* Spleen	Lymph Follic	Atrophy	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

- Oral Mucosa Squamous Cell Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 307

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107711

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone		Fibro-Osseous Lesion	Mild
* Bone Marrow		Hyperplasia	Mild
Lymph Node	Iliac	Hyperplasia	Lymphoid, Moderate
	Renal	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 2-21]			
[Hyperplasia TGLS = 3-22]			
* Mammary Gland		Hyperplasia	Minimal
* Ovary		Hemorrhage	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus		Hyperplasia	Cystic, Marked
		Inflammation	Chronic, Mild
		Metaplasia	Squamous, Moderate
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 308

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107712

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lymph Node, Mandibular
* Mammary Gland	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Skin	Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Lung		Infiltration Cellular	Lymphocyte, Moderate
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Moderate
[Hyperplasia TGLS = 3-5]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 2-6]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 309

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107713

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* 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	Cystic, Moderate
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[Hyperplasia TGLS = 1-7,2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 310

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107714

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Intestine Small, Ileum		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 3-4]			
* Intestine Small, Jejunum		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-3]			
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
* Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 1-5]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thymus		Atrophy	Moderate
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 311

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107715

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Cortex
- * Clitoral Gland
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mandibular
- * Parathyroid Gland
- Stomach, Forestomach
- * Urinary Bladder

- * Adrenal Medulla
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Kidney
- * Mammary Gland
- * Pituitary Gland
- * Stomach, Glandular

- * Bone
- * Eye
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Liver
- * Nose
- * Skin
- * Thymus

- * Brain
- * Gallbladder
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lung
- * Pancreas
- * Spleen
- * Trachea

MISSING

- * Lymph Node, Mesenteric

OBSERVATIONS

- * Bone Marrow
- * Ovary
- * Salivary Glands
- * Thyroid Gland
- * Urin Bladder

Follicle

Hyperplasia
Hemorrhage
Infiltration Cellular
Degeneration

Moderate
Mild
Lymphocyte, Mild
Focal, Minimal

Note: INFUSION ARTIFACT IN URINARY BLADDER.

- * Uterus

Hyperplasia

Cystic, Marked

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 312

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107716

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, 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 | |

MISSING

- * Intestine Small, Ileum

OBSERVATIONS

- | | | | |
|------------------------------|--------|-----------------------------------|------------------------------|
| * Adrenal Cortex | | Accessory Adrenal Cortical Nodule | Moderate |
| * Bone Marrow | | Hyperplasia | Moderate |
| * Eye | Cornea | Hyperplasia | Moderate |
| | | Inflammation | Chronic, Moderate |
| [Hyperplasia TGLS = 1-44] | | | |
| [Inflammation TGLS = 1-44] | | | |
| * Harderian Gland | | Carcinoma | |
| [Carcinoma TGLS = 4-12] | | | |
| * Lung | | Carcinoma | Metastatic (Harderian Gland) |
| * Spleen | | Hematopoietic Cell Proliferation | Minimal |
| * Uterus | | Hyperplasia | Cystic, Marked |
| | | Polyp Stromal | |

Note: THE UTERINE STROMAL POLYP IS LARGELY NECROTIC.

[Hyperplasia TGLS = 3-7]

[Polyp Stromal TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 313

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107717

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Salivary Glands	* Skin	Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow	Hyperplasia	Marked
* Harderian Gland	Adenoma	
* Lung	Infiltration Cellular	Lymphocyte, Mild
* Lymph Node, Mandibular	Pigmentation	Moderate
* Ovary	Cyst	Moderate
[Cyst TGLS = 1-7]		
* Spleen	Hematopoietic Cell Proliferation	Minimal
* Thymus	Hyperplasia	Lymphoid, Moderate
* Uterus	Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 2-7]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 314

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107718

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* 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

* Lung		Infiltration Cellular	Lymphocyte, Mild
* Ovary		Angiectasis	Moderate
* Skin		Hyperkeratosis	Mild
	Epidermis	Hyperplasia	Moderate
	[Hyperkeratosis TGLS = 1-21]		
	[Hyperplasia TGLS = 1-21]		
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Minimal
	[Hyperplasia TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 315

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107719

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Infiltration Cellular	Lymphocyte, Moderate
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Hyperplasia	Lymphoid, Minimal
* Pancreas		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
* Thymus		Hyperplasia	Lymphoid, Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus		Hyperplasia	Cystic, Moderate

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 316

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107720

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver
* Lymph Node, Mandibular	* Mammary Gland	* Nose	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	* Stomach, Glandular
* Trachea	* Urinary Bladder		

INSUFFICIENT TISSUE

* Intestine Large, Rectum

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Minimal
* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Lung		Hemorrhage	Mild
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Ovary		Cyst	Moderate
[Cyst TGLS = 1-7]			
* Pancreas		Cyst	Moderate
* Spleen		Lymphoma Malignant	
Stomach, Forestomach	Epithelium	Hyperplasia	Minimal
* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 317

TRT#: 6

SEX: Female

DAY ON TEST: 688

DOSE: 25000 PPM

DISP: Moribund Sacrifice

HISTO: 107721

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* 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, Mesenteric	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	* Uterus

OBSERVATIONS

* Adrenal Cortex		Lymphoma Malignant	
* Bone Marrow		Hyperplasia	Marked
		Lymphoma Malignant	
* Harderian Gland		Carcinoma	
[Carcinoma TGLS = 9-12]			
* Liver		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 5-6]			
* Lung		Lymphoma Malignant	
Lymph Node	Iliac	Hematopoietic Cell Proliferation	Moderate
	Renal	Hematopoietic Cell Proliferation	Moderate
		Hematopoietic Cell Proliferation	Moderate
	Iliac	Liposarcoma	Metastatic (Skin)
	Inguinal	Liposarcoma	Metastatic (Skin)
	Renal	Liposarcoma	Metastatic (Skin)
	Iliac	Lymphoma Malignant	
[Hematopoietic Cell Proliferation TGLS = 6-22]			
[Hematopoietic Cell Proliferation TGLS = 7-23]			
[Hematopoietic Cell Proliferation TGLS = 8-24]			
[Liposarcoma TGLS = 6-22]			
[Liposarcoma TGLS = 2-21]			
[Liposarcoma TGLS = 7-23]			
[Lymphoma Malignant TGLS = 6-22]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 317	TRT#: 6	SEX: Female	DAY ON TEST: 688
	DOSE: 25000 PPM	DISP: Moribund Sacrifice	HISTO: 107721

ORGAN AND ACCOUNTABLE SITE STATUS

* Lymph Node, Mandibular [Hematopoietic Cell Proliferation TGLS = 1-8]	Hematopoietic Cell Proliferation	Mild
* Mammary Gland	Hyperplasia	Minimal
* Pancreas	Lymphoma Malignant	
* Skin Subcut Tiss Note: LIPOSARCOMA ALSO PRESENT ON SLIDE 8 SURROUNDING CLITORAL GLANDS. [Liposarcoma TGLS = 10-25]	Liposarcoma	
* Spleen [Hematopoietic Cell Proliferation TGLS = 3-6] [Lymphoma Malignant TGLS = 3-6]	Hematopoietic Cell Proliferation Lymphoma Malignant	Marked
* Thymus	Atrophy	Moderate

PRIMARY CAUSE OF DEATH	- Skin Subcut Tiss Liposarcoma
CONTRIBUTORY CAUSE OF DEATH	- Harderian Gland Carcinoma;Spleen Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 318

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107722

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Mammary Gland		Hyperplasia	Minimal
* Pancreas		Atrophy	Marked
[Atrophy TGLS = 3-7]			
* Pituitary Gland	Pars Intermed	Hyperplasia	Moderate
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-7,2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 319

TRT#: 6

SEX: Female

DAY ON TEST: 661

DOSE: 25000 PPM

DISP: Natural Death

HISTO: 107723

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Bone Marrow	Hyperplasia	Moderate
* Harderian Gland	Adenoma	
* Kidney	Nephropathy	Minimal
* Liver	Hematopoietic Cell Proliferation	Moderate
* Spleen	Hemangiosarcoma	
[Hemangiosarcoma TGLS = 4-21,4-22,5-22]		
* Thymus	Hyperplasia	Lymphoid, Moderate
* Urin Bladder		
Note: INFUSION ARTIFACT IN URINARY BLADDER.		
* Uterus	Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 7-7]		

PRIMARY CAUSE OF DEATH

- Spleen Hemangiosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 320

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107724

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* 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		

OBSERVATIONS

* Lung	Alveolar Epith	Hyperplasia	Minimal
* Ovary		Cyst	Moderate
[Cyst TGLS = 1-7]			
* Spleen		Lymphoma Malignant	
* Thymus		Lymphoma Malignant	
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 321

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107725

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|---------------------------|-----------------------------|--------------------------|----------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone Marrow | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * Gallbladder |
| * Harderian Gland | * Heart | * Intestine Large, Cecum | * Intestine Large, Colon |
| * Intestine Large, Rectum | * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum |
| * Islets, Pancreatic | * Kidney | * Liver | * 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

- | | | | |
|----------------------------|----------|----------------------|------------------|
| * Bone | | Fibro-Osseous Lesion | Minimal |
| * Ovary | | Cyst | Moderate |
| | | Hemorrhage | Mild |
| * Thyroid Gland | Follicle | Degeneration | Focal, Minimal |
| * Uterus | | Hyperplasia | Cystic, Moderate |
| [Hyperplasia TGLS = 1-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 322

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107726

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* 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		

OBSERVATIONS

* Harderian Gland		Adenoma	
* Intestine Small, Jejunum	Peyers Patch	Inflammation	Suppurative, Mild
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 3-21]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 2-7]			
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 323

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107727

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney	Renal Tubule	Dilatation	Diffuse, Mild
		Nephropathy	Moderate
* Liver	Hepatocyte	Lymphoma Malignant	
	Iliac	Vacuolization Cytoplasmic	Moderate
Lymph Node	Pancreatic	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
	[Lymphoma Malignant TGLS = 7-21]		
	[Lymphoma Malignant TGLS = 8-22]		
	[Lymphoma Malignant TGLS = 6-7]		
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Ovary		Hemangioma	
		Hemorrhage	Mild
	[Hemangioma TGLS = 4-7]		
* Spleen		Hematopoietic Cell Proliferation	Marked
		Lymphoma Malignant	
	[Hematopoietic Cell Proliferation TGLS = 5-6]		
	[Lymphoma Malignant TGLS = 5-6]		
Stomach, Forestomach	Epithelium	Hyperplasia	Mild
* Thymus		Atrophy	Moderate

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 323

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107727

ORGAN AND ACCOUNTABLE SITE STATUS

* Thyroid Gland

Follicle

Degeneration

Focal, Minimal

* Uterus

Hyperplasia

Cystic, Marked

Polyp Stromal

[Hyperplasia TGLS = 3-7]

[Polyp Stromal TGLS = 2-23]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 324

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107728

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 2-21]			
* Ovary		Hemorrhage	Minimal
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen	Lymph Follic	Hyperplasia	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 325

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107729

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Islets, Pancreatic	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Pituitary Gland
* Skin	Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea			

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Intestine Small, Ileum	Lymphoma Malignant	
* Intestine Small, Jejunum	Lymphoma Malignant	
* Kidney	Lymphoma Malignant	
* Liver	Lymphoma Malignant	
* Lung	Lymphoma Malignant	
* Lymph Node, Mandibular [Lymphoma Malignant TGLS = 1-8]	Lymphoma Malignant	
* Lymph Node, Mesenteric	Lymphoma Malignant	
* Ovary	Cyst	Moderate
* Salivary Glands	Lymphoma Malignant	
* Spleen	Fibrosis	Moderate
	Hematopoietic Cell Proliferation	Moderate
	Lymphoma Malignant	
[Hematopoietic Cell Proliferation TGLS = 2-6]		
[Lymphoma Malignant TGLS = 2-6]		
* Thymus	Lymphoma Malignant	
* Urinary Bladder Note: INFUSION ARTIFACT IN URINARY BLADDER.	Lymphoma Malignant	
* Uterus	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 326

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107730

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Clitoral Gland
* Esophagus	* Eye	* 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	* Parathyroid Gland
* Pituitary Gland	* Skin	Stomach, Forestomach	* Stomach, Glandular
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Minimal
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Lymphoma Malignant	
* Liver		Lymphoma Malignant	
* Lung		Lymphoma Malignant	
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Ectasia	Moderate
		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Spleen		Hematopoietic Cell Proliferation	Moderate
	Lymph Follic	Hyperplasia	Mild
	[Hematopoietic Cell Proliferation TGLS = 1-6]		
	[Hyperplasia TGLS = 1-6]		
* Thymus		Lymphoma Malignant	
* Uterus		Hyperplasia	Cystic, Moderate
		Metaplasia	Squamous, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 327

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107731

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* 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, Mesenteric	* Mammary Gland
* Nose	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Harderian Gland	Lymphoma Malignant	
* Kidney	Lymphoma Malignant	
	Nephropathy	Minimal
Lymph Node		
Note: MALIGNANT LYMPHOMA IN MEDIASTINAL LYMPH NODE (NONPROTOCOL-REQUIRED TISSUE) ON SLIDE 3.		
* Lymph Node, Mandibular	Lymphoma Malignant	
* Ovary	Cyst	Moderate
* Pancreas	Lymphoma Malignant	
* Spleen	Lymphoma Malignant	
* Urinary Bladder	Infiltration Cellular	Lymphocyte, Moderate
Note: INFUSION ARTIFACT IN URINARY BLADDER.		
* Uterus	Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-7,2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 328

TRT#: 6

SEX: Female

DAY ON TEST: 637

DOSE: 25000 PPM

DISP: Natural Death

HISTO: 107732

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* 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		

MISSING

* Gallbladder

OBSERVATIONS

* Bone	Fibro-Osseous Lesion	Mild
* Kidney	Nephropathy	Minimal
* Lung	Hemorrhage	Moderate
[Hemorrhage TGLS = 1-2]		
* Uterus	Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

- Uterus Hyperplasia

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 329

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107733

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* 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	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Mild
* Bone Marrow		Hyperplasia	Mild
* Kidney		Nephropathy	Minimal
* Lung	Alveolar Epith	Hyperplasia	Mild
		Infiltration Cellular	Lymphocyte, Mild
* Ovary		Hemorrhage	Mild
* Spleen	Lymph Follic	Hyperplasia	Mild
* Stomach, Glandular		Cyst	Moderate
* Uterus		Hyperplasia	Cystic, Moderate

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 330

TRT#: 6

SEX: Female

DAY ON TEST: 674

DOSE: 25000 PPM

DISP: Natural Death

HISTO: 107734

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Intestine Small, Jejunum [Lymphoma Malignant TGLS = 5-21]		Lymphoma Malignant	
* Mammary Gland [Hyperplasia TGLS = 2-8]		Hyperplasia	Minimal
* Pituitary Gland [Adenoma TGLS = 4-1]	Pars Distalis	Adenoma	
* Spleen		Lymphoma Malignant	

PRIMARY CAUSE OF DEATH

- Spleen Lymphoma Malignant

CONTRIBUTORY CAUSE OF DEATH

- Pituitary Gland Pars Distalis Adenoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 331

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107735

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Parathyroid Gland

OBSERVATIONS

* Kidney		Nephropathy	Minimal
* Ovary		Cyst	Moderate
		Hemorrhage	Moderate
[Cyst TGLS = 2-7]			
* Spleen		Hematopoietic Cell Proliferation	Minimal
Stomach, Forestomach		Squamous Cell Papilloma	
[Squamous Cell Papilloma TGLS = 3-4]			
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 332

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107736

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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

* Harderian Gland		Carcinoma	
* Kidney		Nephropathy	Minimal
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 1-21]			
* Ovary	Interstit Cell	Hyperplasia	Moderate
* Spleen	Lymph Follic	Hyperplasia	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 333

TRT#: 6

SEX: Female

DAY ON TEST: 697

DOSE: 25000 PPM

DISP: Natural Death

HISTO: 107737

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* Lung	* Nose
* Pancreas	* Parathyroid Gland	* Pituitary Gland	* Salivary Glands
* Skin	Stomach, Forestomach	* Trachea	* Urinary Bladder

MISSING

* Ovary * Thymus

AUTO PRECLUDES DIAG.

* Intestine Small, Duodenum

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Lymph Node, Mandibular		Atrophy	Moderate
* Lymph Node, Mesenteric		Sarcoma Stromal	Metastatic (Uterus)
* Mammary Gland		Hyperplasia	Mild
* Ovary			
Note: OVARIES WERE APPARENTLY OBSCURED BY THE UTERINE MASS.			
* Spleen		Hematopoietic Cell Proliferation	Marked
[Hematopoietic Cell Proliferation TGLS = 2-6]			
* Stomach, Glandular		Sarcoma Stromal	Metastatic (Uterus)
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus		Sarcoma Stromal	
[Sarcoma Stromal TGLS = 3-21]			

PRIMARY CAUSE OF DEATH

- Uterus Sarcoma Stromal

Animal Note: METASTATIC UTERINE STROMAL SARCOMA PRESENT IN MEDIASTINAL LYMPH NODE ON SLIDE 3; LESION NOT TABULATED.

Animal Note: METATSTATIC UTERINE STROMAL SARCOMA IN PANCREATIC LYMPH NODES ON SLIDE 7; NOT TABULATED AS PANCREATIC NODE IS NONPROTOCOL-REQUIRED TISSUE.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 334

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107738

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* 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

* Bone		Fibro-Osseous Lesion	Minimal
* Bone Marrow		Hyperplasia	Mild
* Ovary		Angiectasis	Moderate
		Cystadenoma	
[Angiectasis TGLS = 2-7]			
[Cystadenoma TGLS = 3-7]			
* Spleen		Hematopoietic Cell Proliferation	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 335

TRT#: 6

SEX: Female

DAY ON TEST: 736

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107739

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Lymphoma Malignant	
* Liver		Hepatocellular Adenoma	
[Hepatocellular Adenoma TGLS = 3-21]			
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Ovary		Cyst	Moderate
* Spleen		Hematopoietic Cell Proliferation	Mild
[Hematopoietic Cell Proliferation TGLS = 2-6]		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-6]			
* Thymus		Lymphoma Malignant	
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 336

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107740

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* 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
* Spleen	Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone		Fibro-Osseous Lesion	Minimal
* Eye		Cataract	Moderate
	Cornea	Hyperplasia	Moderate
		Inflammation	Chronic, Moderate
[Cataract TGLS = 5-44]			
[Hyperplasia TGLS = 5-44]			
[Inflammation TGLS = 5-44]			
* Harderian Gland		Carcinoma	
Note: HARDERIAN GLAND CARCINOMA IS VISIBLE ON SLIDES 12 AND 44.			
[Carcinoma TGLS = 4-12]			
* Kidney		Nephropathy	Minimal
* Lung		Carcinoma	Metastatic (Harderian Gland)
Note: METASTATIC HARDERIAN GLAND CARCINOMA IS ON SLIDES 2 AND 21.			
[Carcinoma TGLS = 3-21]			
* Lym Node Mand			
Note: TISSUE RESEMBLING ECTOPIC THYMUS IN REGION OF MANDIBULAR LYMPH NODE; MORPHOLOGY UNAVAILABLE ON TDMS.			
* Ovary		Cyst	Moderate
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-7,2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 337

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107741

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone	Fibro-Osseous Lesion	Minimal
* Lung	Infiltration Cellular	Lymphocyte, Moderate
* Lymph Node, Mesenteric	Lymphoma Malignant	
* Ovary	Cyst	Moderate
	Hemorrhage	Mild
[Cyst TGLS = 1-7]		
* Pancreas	Lymphoma Malignant	
* Salivary Glands	Infiltration Cellular	Lymphocyte, Mild
* Spleen	Lymphoma Malignant	
* Uterus	Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 338

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107742

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Pituitary Gland

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Clear Cell Focus	
* Ovary		Cyst	Moderate
[Cyst TGLS = 1-7]			
* Thymus		Hyperplasia	Lymphoid, Minimal
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 339

TRT#: 6

SEX: Female

DAY ON TEST: 732

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107743

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* 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	* Uterus	

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Minimal
* Ovary		Cyst	Moderate
* Spleen	Lymph Follic	Hyperplasia	Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 340

TRT#: 6

SEX: Female

DAY ON TEST: 602

DOSE: 25000 PPM

DISP: Natural Death

HISTO: 107744

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Harderian Gland
* Heart	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Ileum
* 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	* Thyroid Gland
* Trachea			

AUTO PRECLUDES DIAG.

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

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Mild
* Islets, Pancreatic		Adenoma	
* Liver	Hepatocyte	Vacuolization Cytoplasmic	Moderate
	[Vacuolization Cytoplasmic TGLS = 1-6]		
* Thymus		Atrophy	Moderate
* Urinary Bladder	Transit Epithe	Carcinoma	
	Note: STEP SECTIONS TAKEN IN URINARY BLADDER IN ATTEMPT TO GET MORE COMPLETE SECTION OF LESION. A PORTION OF TUMOR PRESUMABLY LOST IN PROCESSING.		
* Uterus		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

- Urinary Bladder Transit Epithe Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 341

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107745

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Ovary		Hemorrhage	Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen	Lymph Follic	Hyperplasia	Moderate
[Hyperplasia TGLS = 1-6]			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Mild
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 342

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107746

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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	* Skin	Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea	* Urinary Bladder	

OBSERVATIONS

* Bone Marrow		Myelofibrosis	Minimal
* Harderian Gland		Carcinoma	
Note: HARDERIAN GLAND TUMOR HAS A SINGLE LOCALIZED AREA THAT APPEARS TO REPRESENT CARCINOMA.			
[Carcinoma TGLS = 2-12]			
* Kidney		Infiltration Cellular	Lymphocyte, Moderate
* Liver		Infiltration Cellular	Lymphocyte, Mild
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen	Lymph Follicle	Hyperplasia	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 343

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107747

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Minimal
* Kidney		Cyst	Moderate
[Cyst TGLS = 5-21]			
* Liver		Lymphoma Malignant	
Note: LESION TABULATED AS MALIGNANT LYMPHOMA CONTAINS SIGNIFICANT HISTIOCYTIC COMPONENT IN SOME AREAS, ESPECIALLY IN SECTIONS ON SLIDE 6.			
[Lymphoma Malignant TGLS = 6-22]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Lymph Node, Mesenteric		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4-23]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 2-7]			
* Spleen	Lymph Follic	Hyperplasia	Mild
[Hyperplasia TGLS = 3-6]			
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 344

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107748

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* 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

* Bone Marrow		Hyperplasia	Mild
Lymph Node	Iliac	Hyperplasia	Lymphoid, Mild
	Renal	Hyperplasia	Lymphoid, Minimal
[Hyperplasia TGLS = 6-23]			
[Hyperplasia TGLS = 5-22]			
Mesentery		Hemangiosarcoma	
[Hemangiosarcoma TGLS = 1-21]			
* Ovary		Hemorrhage	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
[Hematopoietic Cell Proliferation TGLS = 4-6]			
* Uterus		Hyperplasia	Cystic, Marked
		Polyp Stromal	
[Hyperplasia TGLS = 3-7]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 345

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107749

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone	Fibro-Osseous Lesion	Mild
* Stomach, Glandular	Cyst	Moderate
* Uterus	Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 346

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107750

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Moderate
* Lung	Alveolar Epith	Hyperplasia	Mild
* Ovary		Cyst	Moderate
[Cyst TGLS = 2-7]			
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Hematopoietic Cell Proliferation	Minimal
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus		Hyperplasia	Cystic, Moderate
Note: MODERATE DEGREE OF ENDOMETRIAL STROMAL HYPERPLASIA ASSOCIATED WITH CYSTIC HYPERPLASIA.			
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 347

TRT#: 6

SEX: Female

DAY ON TEST: 665

DOSE: 25000 PPM

DISP: Natural Death

HISTO: 107751

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Clitoral Gland
* Intestine Large, Cecum
* Lung
Stomach, Forestomach

* Adrenal Medulla
* Eye
* Intestine Large, Colon
* Mammary Gland
* Stomach, Glandular

* Bone
* Harderian Gland
* Intestine Large, Rectum
* Nose
* Urinary Bladder

* Brain
* Heart
* Liver
* Skin

MISSING

* Esophagus
* Pituitary Gland
* Trachea

* Lymph Node, Mandibular
* Salivary Glands

* Ovary
* Thymus

* Parathyroid Gland
* Thyroid Gland

AUTO PRECLUDES DIAG.

* Gallbladder
* Islets, Pancreatic

* Intestine Small, Duodenum
* Pancreas

* Intestine Small, Ileum
* Spleen

* Intestine Small, Jejunum

OBSERVATIONS

* Bone Marrow
* Kidney
* Lymph Node, Mesenteric
[Lymphoma Malignant TGLS = 3-5]
* Uterus
[Hyperplasia TGLS = 1-7]

Hyperplasia
Nephropathy
Lymphoma Malignant

Hyperplasia

Marked
Minimal

Cystic, Moderate

PRIMARY CAUSE OF DEATH

- Lymph Node, Mesenteric Lymphoma Malignant

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 348

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107752

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* 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	Fibro-Osseous Lesion	Minimal
* Lung [Alveolar/Bronchiolar Adenoma TGLS = 2-21]	Alveolar/Bronchiolar Adenoma	
* Ovary	Angiectasis	Moderate
	Cyst	Moderate
* Uterus [Hyperplasia TGLS = 1-7]	Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 349

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107753

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* 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			

INSUFFICIENT TISSUE

* Clitoral Gland

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Mild
* Ovary		Cyst	Moderate
[Cyst TGLS = 1-7]			
* Pituitary Gland	Pars Distalis	Cyst	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 350

TRT#: 6

SEX: Female

DAY ON TEST: 735

DOSE: 25000 PPM

DISP: Terminal Sacrifice

HISTO: 107754

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* 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		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Moderate
Lymph Node	Iliac	Hyperplasia	Lymphoid, Moderate
	Renal	Hyperplasia	Lymphoid, Mild
[Hyperplasia TGLS = 2-21]			
[Hyperplasia TGLS = 3-22]			
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus		Hyperplasia	Cystic, Moderate
		Inflammation	Chronic, Mild
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 351	TRT#: 8	SEX: Female	DAY ON TEST: 735
	DOSE: 50000 PPM	DISP: Terminal Sacrifice	HISTO: 107755

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* 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

* Bone		Fibro-Osseous Lesion	Mild
* Kidney		Metaplasia	Osseous, Minimal
* Ovary		Cyst	Moderate
[Cyst TGLS = 1-7]			
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 352

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107756

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Clitoral Gland		Inflammation	Chronic, Mild
* Kidney		Metaplasia	Osseous, Minimal
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Moderate
* Ovary		Cyst	Moderate
		Hemorrhage	Minimal
[Cyst TGLS = 1-7]			
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Mild
* Stomach, Glandular		Cyst	Moderate
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 2-7,3-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 353

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107757

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* 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	* Skin	Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Trachea	* Urinary Bladder

MISSING

* Parathyroid Gland

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Mild
* Kidney		Hyperplasia	Lymphoid, Mild
* Lung		Infiltration Cellular	Lymphocyte, Mild
* Lymph Node, Mandibular		Lymphoma Malignant	
* Ovary		Hemorrhage	Moderate
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-6]			
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus		Angiectasis	Mild
[Hyperplasia TGLS = 1-7]		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 354

TRT#: 8

SEX: Female

DAY ON TEST: 632

DOSE: 50000 PPM

DISP: Natural Death

HISTO: 107758

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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, Mesenteric	* Mammary Gland
* Nose	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	Stomach, Forestomach	* Trachea
* Urinary Bladder	* Uterus		

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hemangiosarcoma	
		Hyperplasia	Marked
		Adenoma	
* Harderian Gland			
[Adenoma TGLS = 6-12]			
* Liver	Centrilobular	Hematopoietic Cell Proliferation	Moderate
		Necrosis	Moderate
Skeletal Muscle		Hemangiosarcoma	
[Hemangiosarcoma TGLS = 4-22]			
* Skin		Edema	Mild
[Edema TGLS = 3-21]			
* Spleen		Hemangiosarcoma	
		Hematopoietic Cell Proliferation	Marked
[Hemangiosarcoma TGLS = 5-23]			
[Hematopoietic Cell Proliferation TGLS = 5-23]			
* Stomach, Glandular		Erosion	Moderate
* Thymus		Atrophy	Moderate
* Thyroid Gland	Follicle	Degeneration	Focal, Mild

PRIMARY CAUSE OF DEATH - Skeletal Muscle Hemangiosarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 355

TRT#: 8

SEX: Female

DAY ON TEST: 721

DOSE: 50000 PPM

DISP: Moribund Sacrifice

HISTO: 107759

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Kidney		Nephropathy	Minimal
* Liver		Hematopoietic Cell Proliferation	Moderate
		Hepatocellular Carcinoma	
	[Hepatocellular Carcinoma TGLS = 4-6]		
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
* Lymph Node, Mesenteric		Atrophy	Moderate
* Skin	Subcut Tiss	Fibrosarcoma	
	[Fibrosarcoma TGLS = 1-21]		
* Spleen		Hematopoietic Cell Proliferation	Marked
	[Hematopoietic Cell Proliferation TGLS = 3-6]		
* Thymus		Atrophy	Mild
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Moderate

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Fibrosarcoma

CONTRIBUTORY CAUSE OF DEATH - Liver Hepatocellular Carcinoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 356

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107760

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Medulla | * Bone Marrow | * Brain | * Clitoral Gland |
| * Esophagus | * Eye | * Gallbladder | * Harderian Gland |
| * Heart | * Intestine Large, Cecum | * Intestine Large, Colon | * Intestine Large, Rectum |
| * Intestine Small, Duodenum | * Intestine Small, Ileum | * Intestine Small, Jejunum | * Islets, Pancreatic |
| * Kidney | * Liver | * 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 | Moderate |
| * Bone | Fibro-Osseous Lesion | Minimal |
| * Thymus | Lymphoma Malignant | |
| [Lymphoma Malignant TGLS = 2-21] | | |
| * Uterus | Hyperplasia | Cystic, Moderate |
| [Hyperplasia TGLS = 1-7] | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 357

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107761

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* 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

* Adrenal Medulla		Hyperplasia	Mild
* Islets, Pancreatic		Adenoma	
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 2-21]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 1-7]			
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 358

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107762

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* 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		Infiltration Cellular	Lymphocyte, Moderate
		Nephropathy	Minimal
* Ovary		Cyst	Moderate
* Spleen	Lymph Follic	Hyperplasia	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Moderate
* Uterus		Hyperplasia	Cystic, Marked
		Polyp Stromal	

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 359

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107763

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* 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	* Salivary Glands
* Skin	* Spleen	Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Harderian Gland		Adenoma	
* Pituitary Gland	Pars Distalis	Angiectasis	Mild
	Pars Distalis	Hyperplasia	Focal, Mild
* Uterus		Angiectasis	Mild
		Hyperplasia	Cystic, Marked

[Hyperplasia TGLS = 1-7,2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 360

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107764

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* 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	* Parathyroid Gland	* Salivary Glands	* Skin
Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Thyroid Gland
* Trachea	* Urinary Bladder		

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Mild
* Clitoral Gland		Inflammation	Chronic, Mild
* Kidney		Infiltration Cellular	Lymphocyte, Mild
* Lung		Infiltration Cellular	Lymphocyte, Mild
* Ovary		Cyst	Moderate
		Luteoma	
[Cyst TGLS = 1-7]			
* Pancreas		Atrophy	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Moderate
* Spleen	Lymph Follic	Hyperplasia	Mild
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 361

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107765

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Clitoral Gland	* Pituitary Gland
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OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Minimal
* Lung		Infiltration Cellular	Lymphocyte, Mild
* Ovary		Cyst	Moderate
[Cyst TGLS = 1-7]			
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus		Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 362

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107766

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- * Adrenal Medulla
- * Esophagus
- * Heart
- * Intestine Small, Duodenum
- * Liver
- * Mammary Gland
- * Parathyroid Gland
- * Spleen
- * Trachea

- * Bone Marrow
- * Eye
- * Intestine Large, Cecum
- * Intestine Small, Ileum
- * Lung
- * Nose
- * Pituitary Gland
- Stomach, Forestomach
- * Urinary Bladder

- * Brain
- * Gallbladder
- * Intestine Large, Colon
- * Intestine Small, Jejunum
- * Lymph Node, Mandibular
- * Ovary
- * Salivary Glands
- * Thymus

- * Clitoral Gland
- * Harderian Gland
- * Intestine Large, Rectum
- * Islets, Pancreatic
- * Lymph Node, Mesenteric
- * Pancreas
- * Skin
- * Thyroid Gland

OBSERVATIONS

- * Adrenal Cortex
- * Bone
- * Kidney
- * Stomach, Glandular
- * Uterus

- Accessory Adrenal Cortical Nodule
- Fibro-Osseous Lesion
- Infiltration Cellular
- Cyst
- Hyperplasia

- Moderate
- Mild
- Lymphocyte, Moderate
- Moderate
- Cystic, Marked

[Hyperplasia TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 363

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107767

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Minimal
* Mammary Gland		Hyperplasia	Minimal
* Parathyroid Gland		Adenoma	
Note: FOCUS OF ECTOPIC THYMUS ADJACENT TO PARATHYROID GLAND.			
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 364

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107768

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* 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	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Skin	Stomach, Forestomach
* Stomach, Glandular	* Thyroid Gland	* Trachea	* Urinary Bladder

OBSERVATIONS

* Adrenal Medulla	Pheochromocytoma Benign	
* Bone Marrow	Lymphoma Malignant	
* Harderian Gland	Adenoma	
[Adenoma TGLS = 3-12]		
* Kidney	Lymphoma Malignant	
	Nephropathy	Minimal
* Liver	Lymphoma Malignant	
* Lymph Node, Mandibular	Lymphoma Malignant	
* Lymph Node, Mesenteric	Lymphoma Malignant	
* Salivary Glands	Lymphoma Malignant	
* Spleen	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-6]		
* Thymus	Lymphoma Malignant	
* Urin Bladder		
Note: INFUSION ARTIFACT IN URINARY BLADDER.		
* Uterus	Hyperplasia	Cystic, Mild
[Hyperplasia TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:38
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 365

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107769

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* 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	Cystic, Mild
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[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:38

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 366

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107770

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* 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
* Salivary Glands	* Skin	Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Thyroid Gland	* Trachea	* Urinary Bladder

MISSING

* Pituitary Gland

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Minimal
* Harderian Gland		Adenoma	Multiple
* Lung		Hemorrhage	Minimal
Mesentery	Fat	Necrosis	Moderate
[Necrosis TGLS = 3-21]			
* Ovary		Angiectasis	Moderate
[Angiectasis TGLS = 2-7]			
* Spleen	Lymph Follic	Hyperplasia	Mild
* Urin Bladder			
Note: INFUSION ARTIFACT IN URINARY BLADDER.			
* Uterus		Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 367

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107771

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Liver
* 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	Cystic, Mild
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[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 368

TRT#: 8

SEX: Female

DAY ON TEST: 688

DOSE: 50000 PPM

DISP: Moribund Sacrifice

HISTO: 107772

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Lymph Node, Mesenteric	* Nose	* Parathyroid Gland	* Pituitary Gland
* Skin	* Stomach, Glandular	* Thyroid Gland	* Trachea
* Urinary Bladder			

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Moderate
* Bone Marrow		Hyperplasia	Marked
* Heart		Sarcoma	Metastatic (Skeletal Muscle)
* Liver	Kupffer Cell	Hyperplasia	Moderate
* Lung		Sarcoma	Metastatic (Skeletal Muscle)
Note: LESION ON SLIDE 22 INVOLVES MEDIASTINAL PORTION OF LUNG. SARCOMA METASTASIS ALSO PRESENT IN LUNG ON SLIDE 2.			
[Sarcoma TGLS = 7-22,8-23,9-24,10-25]			
* Mammary Gland		Hyperplasia	Moderate
* Ovary		Cyst	Moderate
[Cyst TGLS = 3-7]			
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
* Salivary Glands		Atrophy	Mild
		Infiltration Cellular	Lymphocyte, Mild
Skeletal Muscle		Sarcoma	
[Sarcoma TGLS = 5-21]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
[Hematopoietic Cell Proliferation TGLS = 4-6]			
Stomach, Forestomach		Erosion	Mild
* Thymus		Sarcoma	Metastatic (Skeletal Muscle)
[Sarcoma TGLS = 6-3]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 368

TRT#: 8

SEX: Female

DAY ON TEST: 688

DOSE: 50000 PPM

DISP: Moribund Sacrifice

HISTO: 107772

ORGAN AND ACCOUNTABLE SITE STATUS

* Urin Bladder

Note: INFUSION ARTIFACT IN URINARY BLADDER.

* Uterus

Angiectasis

Moderate

Hyperplasia

Cystic, Mild

[Hyperplasia TGLS = 2-7]

PRIMARY CAUSE OF DEATH

- Skeletal Muscle Sarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 369

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107773

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Liver	* Lung	* Lymph Node, Mesenteric	* Mammary Gland
* Nose	* Pancreas	* Parathyroid Gland	* Salivary Glands
* Skin	Stomach, Forestomach	* Thymus	* Trachea

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Mild
* Bone Marrow		Hyperplasia	Mild
* Kidney		Infiltration Cellular	Lymphocyte, Moderate
		Nephropathy	Minimal
* Lymph Node, Mandibular		Lymphoma Malignant	
* Ovary		Hemorrhage	Mild
* Pituitary Gland	Pars Distalis	Adenoma	
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Lymphoma Malignant	
		[Hematopoietic Cell Proliferation TGLS = 2-6]	
		[Lymphoma Malignant TGLS = 2-6]	
* Stomach, Glandular		Cyst	Moderate
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Urinary Bladder		Lymphoma Malignant	
		Note: INFUSION ARTIFACT IN URINARY BLADDER.	
* Uterus		Hyperplasia	Cystic, Mild
		[Hyperplasia TGLS = 1-7]	

PRIMARY CAUSE OF DEATH -

Animal Note: MALIGNANT LYMPHOMA IS VISIBLE IN PANCREATIC LYMPH NODE (NONPROTOCOL-REQUIRED TISSUE) ON SLIDE 7.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 370

TRT#: 8

SEX: Female

DAY ON TEST: 659

DOSE: 50000 PPM

DISP: Moribund Sacrifice

HISTO: 107774

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

MISSING

* Lymph Node, Mandibular

OBSERVATIONS

* Bone Marrow		Hyperplasia	Moderate
* Kidney	Renal Tubule	Accumulation, Hyaline Droplet	Moderate
* Liver		Hematopoietic Cell Proliferation	Moderate
		Necrosis	Diffuse, Mild
	Kupffer Cell	Pigmentation	Moderate
* Lung		Liposarcoma	Metastatic (Skin)
* Lymph Node, Mesenteric		Atrophy	Mild
* Mammary Gland		Hyperplasia	Minimal
* Pancreas	Acinus	Cytoplasmic Alteration	Moderate
Skeletal Muscle		Liposarcoma	Metastatic (Skin)
[Liposarcoma TGLS = 3-22]			
* Skin	Subcut Tiss	Liposarcoma	
[Liposarcoma TGLS = 1-21]			
* Spleen		Hematopoietic Cell Proliferation	Moderate
* Thymus		Atrophy	Moderate

PRIMARY CAUSE OF DEATH - Skin Subcut Tiss Liposarcoma

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 371

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107775

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* 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	* Nose	* Ovary	* Pancreas
* Parathyroid Gland	* Pituitary Gland	* Salivary Glands	* Skin
Stomach, Forestomach	* Stomach, Glandular	* Thymus	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Bone Marrow		Hyperplasia	Mild
* Harderian Gland		Adenoma	
* Kidney		Infiltration Cellular	Lymphocyte, Moderate
* Lymph Node, Mandibular		Lymphoma Malignant	
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Mammary Gland		Hyperplasia	Mild
* Spleen		Hematopoietic Cell Proliferation	Minimal
		Lymphoma Malignant	
[Hematopoietic Cell Proliferation TGLS = 1-6]			
[Lymphoma Malignant TGLS = 1-6]			
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 372

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107776

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Esophagus
Note: MILD EDEMA IN SUBMUCOSA OF ESOPHAGUS; MORPHOLOGY UNAVAILABLE ON TDMS.

* Ovary		Hemorrhage	Mild
* Pituitary Gland	Pars Distalis	Hyperplasia	Focal, Minimal
* Stomach, Glandular		Cyst	Moderate
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 373

TRT#: 8

SEX: Female

DAY ON TEST: 196

DOSE: 50000 PPM

DISP: Accidentally Killed

HISTO: 107777

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex
* Brain
* Heart
* Intestine Small, Ileum
* Lymph Node, Mandibular
* Ovary
* Salivary Glands
* Thymus
* Uterus

* Adrenal Medulla
* Esophagus
* Intestine Large, Cecum
* Islets, Pancreatic
* Lymph Node, Mesenteric
* Pancreas
* Spleen
* Thyroid Gland

* Bone
* Eye
* Intestine Large, Colon
* Kidney
* Mammary Gland
* Parathyroid Gland
Stomach, Forestomach
* Trachea

* Bone Marrow
* Harderian Gland
* Intestine Large, Rectum
* Liver
* Nose
* Pituitary Gland
* Stomach, Glandular
* Urinary Bladder

MISSING

* Clitoral Gland

AUTO PRECLUDES DIAG.

* Gallbladder

* Intestine Small, Duodenum

* Intestine Small, Jejunum

OBSERVATIONS

* Lung
* Skin

Hemorrhage
Inflammation

Mild
Chronic, Minimal

PRIMARY CAUSE OF DEATH

- UNCERTAIN

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 374

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107778

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* Lung
* 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	Fibro-Osseous Lesion	Minimal
* Lymph Node, Mandibular	Pigmentation	Moderate
* Ovary	Cyst	Moderate
* Urin Bladder		
Note: INFUSION ARTIFACT IN URINARY BLADDER.		
* Uterus	Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-7]		

PRIMARY CAUSE OF DEATH -

Animal Note: SMALL STRUCTURE RESEMBLING ACCESSORY LIVER TISSUE IN MESENTERY ADJACENT TO PANCREAS ON SLIDE 7.

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 375

TRT#: 8

SEX: Female

DAY ON TEST: 729

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107779

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Heart
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Pancreas	* Parathyroid Gland
* Skin	Stomach, Forestomach	* Stomach, Glandular	* Thyroid Gland
* Trachea	* Urinary Bladder	* Uterus	

OBSERVATIONS

* Adrenal Cortex	Leukemia Granulocytic	
* Bone Marrow	Leukemia Granulocytic	
* Harderian Gland	Adenoma	
* Intestine Large, Cecum	Edema	Mild
* Liver	Leukemia Granulocytic	
[Leukemia Granulocytic TGLS = 2-6]		
* Lung	Leukemia Granulocytic	
* Lymph Node, Mandibular	Pigmentation	Moderate
* Ovary	Cyst	Moderate
* Pituitary Gland	Leukemia Granulocytic	
* Salivary Glands	Atrophy	Minimal
* Spleen	Hematopoietic Cell Proliferation	Moderate
	Leukemia Granulocytic	
[Hematopoietic Cell Proliferation TGLS = 1-6]		
[Leukemia Granulocytic TGLS = 1-6]		
* Thymus	Leukemia Granulocytic	
* Urin Bladder		

Note: INFUSION ARTIFACT IN URINARY BLADDER.

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 376

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107780

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Kidney	* Liver	* 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

* Adrenal Cortex	Accessory Adrenal Cortical Nodule	Moderate
* Ovary	Angiectasis	Mild
* Uterus	Hyperplasia	Cystic, Marked

[Hyperplasia TGLS = 2-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 377

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107781

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Lymphoma Malignant	
* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 7-25]			
Lymph Node	Iliac	Lymphoma Malignant	
	Mediastinal	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 6-24]			
[Lymphoma Malignant TGLS = 4-22]			
[Lymphoma Malignant TGLS = 8-3]			
[Lymphoma Malignant TGLS = 5-23]			
* Lymph Node, Mandibular		Hematopoietic Cell Proliferation	Mild
* Ovary		Cyst	Moderate
		Hemorrhage	Moderate
* Spleen		Hematopoietic Cell Proliferation	Moderate
		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 3-21]			
* Uterus		Angiectasis	Mild
		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-7,2-7]			

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 377

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107781

ORGAN AND ACCOUNTABLE SITE STATUS

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 378

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107782

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* 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	* Ovary	* Pancreas	* Parathyroid Gland
* Pituitary Gland	* Salivary Glands	* Skin	Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
* Kidney		Metaplasia	Osseous, Minimal
		Nephropathy	Minimal
* Lung		Alveolar/Bronchiolar Adenoma	
	Alveolar Epith	Hyperplasia	Minimal
* Lymph Node, Mandibular		Lymphoma Malignant	
		Pigmentation	Moderate
* Spleen		Lymphoma Malignant	
Tissue NOS		Schwannoma Malignant	
Note: TISSUE SUSPECTED OF BEING MALIGNANT SCHWANNOMA WITHIN AND AROUND SKELETAL MUSCLE WITH THYROID SECTION ON SLIDE 3 AND MUSCLE ON SLIDE 21.			
* Urinary Bladder		Infiltration Cellular	Lymphocyte, Moderate
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 379

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107783

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone Marrow	* Brain	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* 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

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone		Fibro-Osseous Lesion	Minimal
* Clitoral Gland		Cyst	Moderate
* Lung		Infiltration Cellular	Lymphocyte, Mild
* Ovary		Cyst	Moderate
[Cyst TGLS = 1-7]			
* Spleen	Lymph Follic	Hyperplasia	Mild
* Thyroid Gland	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Moderate

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 380

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107784

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Brain	* Clitoral Gland
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Lung	* Lymph Node, Mandibular	* 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

* Bone	Fibro-Osseous Lesion	Marked
* Bone Marrow	Hyperplasia	Mild
* Kidney	Nephropathy	Minimal
* Liver	Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 2-21]		
* Uterus	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-7]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 381

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107785

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Medulla	* Bone	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Liver	* Lung	* 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		

INSUFFICIENT TISSUE

* Ovary

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Kidney		Infiltration Cellular	Lymphocyte, Moderate
* Thyroid Gland	Follicle	Cyst	Moderate
	Follicle	Degeneration	Focal, Minimal
* Uterus		Hyperplasia	Cystic, Moderate

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 382

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107786

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Kidney	Infiltration Cellular	Lymphocyte, Moderate
	Nephropathy	Minimal
* Liver	Hematopoietic Cell Proliferation	Mild
	Lymphoma Malignant	
* Lung	Hemorrhage	Minimal
* Ovary	Cyst	Moderate
* Spleen	Hematopoietic Cell Proliferation	Mild
	Lymphoma Malignant	
[Hematopoietic Cell Proliferation TGLS = 2-6]		
[Lymphoma Malignant TGLS = 2-6]		
* Urin Bladder		
Note: INFUSION ARTIFACT IN URINARY BLADDER.		
* Uterus	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-7]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 383

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107787

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Lymph Node, Mesenteric
* Mammary Gland	* Nose	* Ovary	* Parathyroid Gland
* Pituitary Gland	* Skin	Stomach, Forestomach	* Stomach, Glandular
* Thymus	* Trachea		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Marked
* Harderian Gland		Lymphoma Malignant	
* Intestine Small, Duodenum	Epithelium	Hyperplasia	Moderate
[Hyperplasia TGLS = 4-23]			
* Kidney		Lymphoma Malignant	
* Liver		Hematopoietic Cell Proliferation	Minimal
* Lung		Hemorrhage	Mild
		Lymphoma Malignant	
Lymph Node	Mediastinal	Lymphoma Malignant	
	Renal	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 3-22]			
[Lymphoma Malignant TGLS = 2-21]			
* Lymph Node, Mandibular		Lymphoma Malignant	
* Pancreas		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Spleen		Hematopoietic Cell Proliferation	Mild
		Lymphoma Malignant	
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Urinary Bladder		Lymphoma Malignant	
* Uterus		Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 384

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107788

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* 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	Infiltration Cellular	Lymphocyte, Moderate
* Lymph Node, Mandibular	Lymphoma Malignant	
* Uterus	Histiocytic Sarcoma	

[Histiocytic Sarcoma TGSL = 1-7]

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 385

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107789

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
		Lymphoma Malignant	
* Kidney		Infiltration Cellular	Lymphocyte, Moderate
* Liver		Lymphoma Malignant	
Lymph Node	Mediastinal	Lymphoma Malignant	
	Pancreatic	Lymphoma Malignant	
[Lymphoma Malignant TGLS = 3-3]			
* Lymph Node, Mandibular		Hyperplasia	Lymphoid, Mild
		Pigmentation	Moderate
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-7,2-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 386

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107790

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Esophagus	* Eye	* Gallbladder	* Harderian Gland
* Heart	* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum
* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic
* Kidney	* Liver	* 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

* Clitoral Gland

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Mild
* Ovary		Cyst	Marked
	Thecal Cell	Hyperplasia	Moderate
Note: THECAL CELL HYPERPLASIA IS PRESENT BORDERING THE LARGE OVARIAN CYST. [Cyst TGLS = 1-7]			
* Thyroid Gland	Follicular Cel Follicle	Adenoma Degeneration	Focal, Mild
[Adenoma TGLS = 2-3]			
* Uterus		Hyperplasia	Cystic, Minimal

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 387

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107791

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Liver		Hepatocellular Carcinoma	
[Hepatocellular Carcinoma TGLS = 3-21]			
* Ovary		Cyst	Moderate
[Cyst TGLS = 2-7]			
* Thymus		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 4-3]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Minimal
* Uterus		Hyperplasia	Cystic, Mild
		Metaplasia	Squamous, Moderate
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 388

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107792

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

- | | | | |
|-----------------------------|--------------------------|----------------------------|---------------------------|
| * Adrenal Cortex | * Adrenal Medulla | * Bone | * Brain |
| * Clitoral Gland | * Esophagus | * Eye | * 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 | * Thyroid Gland |
| * Trachea | * Urinary Bladder | | |

OBSERVATIONS

- | | | | |
|---|--------------|-------------|--------------|
| * Bone Marrow | | Hyperplasia | Mild |
| * Harderian Gland | | Adenoma | |
| * Ovary | | Angiectasis | Mild |
| | | Cyst | Moderate |
| | | Hemorrhage | Mild |
| * Spleen | Lymph Follic | Hyperplasia | Mild |
| * Urin Bladder | | | |
| Note: INFUSION ARTIFACT IN URINARY BLADDER. | | | |
| * Uterus | | Hyperplasia | Cystic, Mild |
| [Hyperplasia TGLS = 1-7] | | | |

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 389

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107793

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Hypertrophy	Focal, Minimal
* Bone Marrow		Hyperplasia	Marked
* Liver		Hematopoietic Cell Proliferation	Mild
Lymph Node	Iliac	Hematopoietic Cell Proliferation	Mild
	Iliac	Hyperplasia	Lymphoid, Moderate
	[Hematopoietic Cell Proliferation TGLS = 3-22]		
	[Hyperplasia TGLS = 3-22]		
* Lymph Node, Mandibular		Pigmentation	Moderate
Mesentery	Fat	Necrosis	Moderate
	[Necrosis TGLS = 2-21]		
* Ovary		Hemorrhage	Moderate
* Spleen		Hematopoietic Cell Proliferation	Marked
* Thyroid Gland	Follicle	Degeneration	Focal, Mild
* Uterus		Angiectasis	Marked
		Hyperplasia	Cystic, Moderate
		Inflammation	Chronic, Moderate
		Metaplasia	Squamous, Moderate
	[Hyperplasia TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 390

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107794

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Lung		Hemorrhage	Minimal
* Ovary		Hemorrhage	Mild
	Interstitial Cell	Hyperplasia	Mild
* Pancreas		Cyst	Marked
	Duct	Hyperplasia	Marked
	[Cyst TGLS = 2-21]		
	[Hyperplasia TGLS = 2-21]		
* Uterus		Hyperplasia	Cystic, Mild
	[Hyperplasia TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 391

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107795

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Clitoral Gland	* Esophagus
* Eye	* Gallbladder	* Harderian Gland	* Heart
* Intestine Large, Cecum	* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum
* Intestine Small, Ileum	* Intestine Small, Jejunum	* Islets, Pancreatic	* Kidney
* Liver	* 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

* Bone		Fibro-Osseous Lesion	Minimal
* Bone Marrow		Hyperplasia	Moderate
* Brain		Compression	Mild
[Compression TGLS = 4-1]			
* Lung		Hemorrhage	Moderate
[Hemorrhage TGLS = 2-2]			
* Ovary		Hemorrhage	Moderate
	Corpus Luteum	Hyperplasia	Moderate
* Pituitary Gland	Pars Distalis	Adenoma	
[Adenoma TGLS = 3-1]			
* Thyroid Gland	Follicular Cel	Hyperplasia	Moderate
* Uterus		Angiectasis	Moderate
		Hyperplasia	Cystic, Moderate
[Angiectasis TGLS = 1-7]			
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 392

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107796

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Adrenal Cortex		Accessory Adrenal Cortical Nodule	Moderate
* Bone Marrow		Hyperplasia	Mild
* Kidney		Infiltration Cellular	Lymphocyte, Moderate
* Salivary Glands		Infiltration Cellular	Lymphocyte, Moderate
* Skin	Subcut Tiss	Fibrous Histiocytoma	
[Fibrous Histiocytoma TGLS = 2-21]			
* Spleen	Lymph Follic	Hyperplasia	Moderate
* Uterus		Hyperplasia	Cystic, Mild

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 393

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107797

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* 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	* Pituitary Gland
* Salivary Glands	* Skin	* Spleen	Stomach, Forestomach
* Stomach, Glandular	* Thymus	* Thyroid Gland	* Trachea
* Urinary Bladder			

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Kidney	Nephropathy	Minimal
* Lung	Hemorrhage	Mild
	Infiltration Cellular	Histiocyte, Mild
Note: MODERATE LYMPHOCYTIC INFILTRATE IN LUNG; SYSTEM WOULD NOT ALLOW ENTRY ON TDMS. [Infiltration Cellular TGLS = 3-21]		
* Lymph Node, Mandibular	Pigmentation	Moderate
* Ovary	Cyst	Moderate
[Cyst TGLS = 1-7]		
* Urin Bladder		
Note: INFUSION ARTIFACT IN URINARY BLADDER.		
* Uterus	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-7]		

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 394

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107798

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

* Bone Marrow	Hyperplasia	Mild
* Liver	Lymphoma Malignant	
* Lymph Node, Mesenteric	Hyperplasia	Lymphoid, Moderate
* Ovary	Cyst	Moderate
* Salivary Glands	Infiltration Cellular	Lymphocyte, Moderate
* Spleen	Lymphoma Malignant	
* Urin Bladder		
Note: INFUSION ARTIFACT IN URINARY BLADDER.		
* Uterus	Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 2-7,3-7,4-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 395

TRT#: 8

SEX: Female

DAY ON TEST: 736

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107799

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone Marrow	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* 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	

MISSING

* Intestine Small, Ileum

OBSERVATIONS

* Bone	Fracture	
[Fracture TGLS = 1-21]		
* Kidney	Nephropathy	Minimal
* Uterus	Hyperplasia	Cystic, Marked
[Hyperplasia TGLS = 2-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 396

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107800

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

* Parathyroid Gland

OBSERVATIONS

* Liver	Clear Cell Focus	
[Clear Cell Focus TGLS = 2-21]		
* Thyroid Gland	Ultimobranchial Cyst	Moderate
* Urinary Bladder	Infiltration Cellular	Lymphocyte, Moderate
* Uterus	Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 397

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107801

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Brain
* Clitoral Gland	* Esophagus	* Eye	* Gallbladder
* Harderian Gland	* Heart	* Intestine Large, Cecum	* Intestine Large, Colon
* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum	* Intestine Small, Jejunum
* Islets, Pancreatic	* Mammary Gland	* Parathyroid Gland	* Pituitary Gland
* Skin	Stomach, Forestomach	* Stomach, Glandular	* Thymus
* Thyroid Gland	* Trachea		

OBSERVATIONS

* Bone Marrow		Hyperplasia	Mild
		Lymphoma Malignant	
* Kidney		Lymphoma Malignant	
* Liver		Lymphoma Malignant	
* Lung		Lymphoma Malignant	
* Lymph Node, Mandibular		Pigmentation	Moderate
* Lymph Node, Mesenteric		Lymphoma Malignant	
* Nose		Inflammation	Chronic, Minimal
* Ovary		Hemorrhage	Mild
	Interstitial Cell	Hyperplasia	Mild
* Pancreas		Lymphoma Malignant	
* Salivary Glands		Lymphoma Malignant	
* Spleen		Lymphoma Malignant	
[Lymphoma Malignant TGLS = 2-6]			
* Urinary Bladder		Lymphoma Malignant	
* Uterus		Hyperplasia	Cystic, Moderate
[Hyperplasia TGLS = 1-7]			

PRIMARY CAUSE OF DEATH -

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 398

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107802

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

* Adrenal Cortex	* Adrenal Medulla	* Bone	* Bone Marrow
* Brain	* Clitoral Gland	* Esophagus	* Eye
* Gallbladder	* Harderian Gland	* Heart	* Intestine Large, Cecum
* Intestine Large, Colon	* Intestine Large, Rectum	* Intestine Small, Duodenum	* Intestine Small, Ileum
* Intestine Small, Jejunum	* Islets, Pancreatic	* Liver	* Lung
* 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	Cyst	Moderate
	Infiltration Cellular	Lymphocyte, Moderate
* Ovary	Angiectasis	Moderate
	Cyst	Moderate
[Angiectasis TGLS = 2-7]		
[Cyst TGLS = 3-7]		
* Urin Bladder		
Note: INFUSION ARTIFACT IN URINARY BLADDER.		
* Uterus	Hyperplasia	Cystic, Minimal
[Hyperplasia TGLS = 1-7]		

PRIMARY CAUSE OF DEATH

-

* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04
Test Type: CHRONIC
Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA
Test Compound: Milk thistle extract
CAS Number: 84604-20-6

Date Report Requested: 10/19/2014
Time Report Requested: 22:45:39
First Dose M/F: NA / NA
Lab: SRI

ANIMAL ID: 399

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107803

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

INSUFFICIENT TISSUE

* Thymus

OBSERVATIONS

* Bone		Fibro-Osseous Lesion	Minimal
* Intestine Small, Ileum	Peyers Patch	Necrosis	Mild
* Lung		Infiltration Cellular	Lymphocyte, Moderate
* Parathyroid Gland		Cyst	Moderate
* Uterus		Hyperplasia	Cystic, Moderate

[Hyperplasia TGLS = 1-7]

PRIMARY CAUSE OF DEATH

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* PROTOCOL REQUIRED TISSUE

Experiment Number: 20008-04

Test Type: CHRONIC

Species/Strain: Mouse/B6C3F1

P14: INDIVIDUAL ANIMAL PATHOLOGY DATA

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/19/2014

Time Report Requested: 22:45:39

First Dose M/F: NA / NA

Lab: SRI

ANIMAL ID: 400

TRT#: 8

SEX: Female

DAY ON TEST: 735

DOSE: 50000 PPM

DISP: Terminal Sacrifice

HISTO: 107804

ORGAN AND ACCOUNTABLE SITE STATUS

NORMAL

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

OBSERVATIONS

- | | | |
|-----------------------------------|----------------------|----------------|
| * Bone | Fibro-Osseous Lesion | Mild |
| * Kidney | Nephropathy | Minimal |
| * Ovary | Cyst | Moderate |
| [Cyst TGLS = 3-7] | | |
| * Thymus | Lymphoma Malignant | |
| [Lymphoma Malignant TGLS = 4-3] | | |
| * Uterus | Hyperplasia | Cystic, Marked |
| [Hyperplasia TGLS = 1-7,2-7] | | |

PRIMARY CAUSE OF DEATH

-

** END OF REPORT **

* PROTOCOL REQUIRED TISSUE