

**Experiment Number:** 20008-02  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Mouse/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**  
**Test Compound:** Milk thistle extract  
**CAS Number:** 84604-20-6

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 18:05:42  
**First Dose M/F:** NA / NA  
**Lab:** SRI

<b>C Number:</b>	C20008
<b>Lock Date:</b>	11/08/2002
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

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 First Dose M/F: NA / NA  
 Lab: SRI

**B6C3F1 Mouse Male**  
**0 PPM**

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

**\*TOTALS**

**Alimentary System**

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Gallbladder	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Depletion Glycogen				2		2		2		2	4 2.0
Inflammation, Chronic, Focal	1			1				1			3 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

**Cardiovascular System**

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

**Endocrine System**

Adrenal Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla	+	+	+	+	+	+	+	+	+	+	10

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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CAS Number: 84604-20-6

Date Report Requested: 10/15/2014

Time Report Requested: 18:05:43

First Dose M/F: NA / NA

Lab: SRI

B6C3F1 Mouse Male 0 PPM	DAY ON TEST										*TOTALS
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	3	3	3	3	3	3	3	3	3	3	
Parathyroid Gland	0	0	0	0	0	0	0	0	0	0	10
Cyst	0	0	0	0	0	0	0	0	0	0	1 2.0
Pituitary Gland	0	0	0	0	0	0	0	0	0	0	9
Thyroid Gland	0	0	0	0	0	0	0	0	0	0	10
<b>General Body System</b>	1	2	3	4	5	6	7	8	9	0	
NONE											
<b>Genital System</b>											
Epididymis	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Prostate	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10
<b>Hematopoietic System</b>											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
<b>Integumentary System</b>											
Mammary Gland	M	M	M	M	M	M	M	M	M	M	0
Skin	+	+	+	+	+	+	+	+	+	+	10

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Lab: SRI

B6C3F1 Mouse Male 0 PPM	DAY ON TEST										*TOTALS
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	0	0
Skin	+	+	+	+	+	+	+	+	+	+	10
<b>Musculoskeletal System</b>											
Bone	+	+	+	+	+	+	+	+	+	+	10
<b>Nervous System</b>											
Brain	+	+	+	+	+	+	+	+	+	+	10
<b>Respiratory System</b>											
Lung	+	+	+	+	+	+	+	+	+	+	10
Hemorrhage, Focal								2			1 2.0
Infiltration Cellular, Lymphocyte, Focal	1										1 1.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	+	10
<b>Special Senses System</b>											
Eye	+	+	+	+	+	+	+	+	+	+	10
Harderian Gland	+	+	+	+	+	+	+	+	+	+	10
<b>Urinary System</b>											
Kidney	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Lymphocyte, Focal								1			1 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10

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Date Report Requested: 10/15/2014

Time Report Requested: 18:05:43

First Dose M/F: NA / NA

Lab: SRI

B6C3F1 Mouse Male  
3125 PPM

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

Alimentary System

Stomach, Forestomach + + + + + + + + + + 10

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

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 First Dose M/F: NA / NA  
 Lab: SRI

**B6C3F1 Mouse Male**  
**3125 PPM**

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

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

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 Species/Strain: Mouse/B6C3F1

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Date Report Requested: 10/15/2014  
 Time Report Requested: 18:05:43  
 First Dose M/F: NA / NA  
 Lab: SRI

**B6C3F1 Mouse Male**  
**6250 PPM**

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

**Alimentary System**

Stomach, Forestomach + + + + + + + + + + 10

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

NONE

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X ..Lesion present

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Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

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First Dose M/F: NA / NA

Lab: SRI

B6C3F1 Mouse Male  
6250 PPM

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

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/15/2014

Time Report Requested: 18:05:43

First Dose M/F: NA / NA

Lab: SRI

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

**Alimentary System**

Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

**Nervous System**

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First Dose M/F: NA / NA

Lab: SRI

B6C3F1 Mouse Male  
12500 PPM

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

NONE  
Respiratory System

NONE  
Special Senses System

NONE  
Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10
Infiltration Cellular, Lymphocyte, Focal									1		1 1.0

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First Dose M/F: NA / NA

Lab: SRI

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

**Alimentary System**

Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia, Squamous, Focal			2				1				2 1.5
Ulcer			1								1 1.0
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

Testes							+				1
Atrophy							3				1 3.0

**Hematopoietic System**

NONE

**Integumentary System**

NONE

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Lab: SRI

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

**Musculoskeletal System**

NONE

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

Kidney

+ + + + + + + + + + 10

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First Dose M/F: NA / NA

Lab: SRI

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

Alimentary System

|                              |   |   |   |   |   |   |   |   |   |   |       |
|------------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus                    | + | + | + | + | + | + | + | + | + | + | 10    |
| Gallbladder                  | + | + | + | M | + | + | + | + | + | + | 9     |
| Intestine Large, Cecum       | + | + | + | + | + | + | + | + | + | + | 10    |
| Intestine Large, Colon       | + | + | + | + | + | + | + | + | + | + | 10    |
| Intestine Large, Rectum      | + | + | + | + | + | + | + | + | + | + | 10    |
| Intestine Small, Duodenum    | + | + | + | + | + | + | M | + | + | + | 9     |
| Intestine Small, Ileum       | + | + | + | + | + | + | + | + | + | + | 10    |
| Intestine Small, Jejunum     | + | + | + | + | + | + | + | + | + | + | 10    |
| Liver                        | + | + | + | + | + | + | + | + | + | + | 10    |
| Depletion Glycogen           |   |   |   | 2 | 2 | 2 | 2 | 2 | 2 |   | 6 2.0 |
| Inflammation, Chronic, Focal | 1 | 1 |   |   | 1 |   |   |   |   |   | 3 1.0 |
| Pancreas                     | + | + | + | + | + | + | + | + | + | + | 10    |
| Salivary Glands              | + | + | + | + | + | + | + | + | + | + | 10    |
| Stomach, Forestomach         | + | + | + | + | + | + | + | + | + | + | 10    |
| Erosion, Focal               |   |   | 1 |   |   |   |   |   |   |   | 1 1.0 |
| Hyperplasia, Squamous, Focal |   |   | 2 |   |   |   |   |   |   |   | 1 2.0 |
| Stomach, Glandular           | + | + | + | + | + | + | + | + | + | + | 10    |
| Cyst                         |   |   |   |   |   |   | 1 |   |   |   | 1 1.0 |

Cardiovascular System

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

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20008-02

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/15/2014

Time Report Requested: 18:05:43

First Dose M/F: NA / NA

Lab: SRI

B6C3F1 Mouse Male  
50000 PPM

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

\*TOTALS

Endocrine System

|                   |   |   |   |   |   |   |   |   |   |   |       |
|-------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Adrenal Cortex    | + | + | + | + | + | + | + | + | + | + | 10    |
| Adrenal Medulla   | + | + | + | + | + | + | + | + | + | + | 10    |
| Parathyroid Gland | + | + | + | + | + | + | + | + | + | + | 10    |
| Pituitary Gland   | + | + | + | + | + | + | + | + | + | + | 10    |
| Thyroid Gland     | + | + | + | + | + | + | + | + | + | + | 10    |
| Ectopic Thymus    |   |   |   |   |   |   | 1 |   |   |   | 1 1.0 |

General Body System

NONE

Genital System

|                 |   |   |   |   |   |   |   |   |   |   |    |
|-----------------|---|---|---|---|---|---|---|---|---|---|----|
| Epididymis      | + | + | + | + | + | + | + | + | + | + | 10 |
| Preputial Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Prostate        | + | + | + | + | + | + | + | + | + | + | 10 |
| Seminal Vesicle | + | + | + | + | + | + | + | + | + | + | 10 |
| Testes          | + | + | + | + | + | + | + | + | + | + | 10 |

Hematopoietic System

|                        |   |   |   |   |   |   |   |   |   |   |    |
|------------------------|---|---|---|---|---|---|---|---|---|---|----|
| Bone Marrow            | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mandibular | + | + | + | + | + | + | + | + | + | + | 10 |
| Lymph Node, Mesenteric | M | + | + | + | + | + | + | + | + | + | 9  |
| Spleen                 | + | + | + | + | + | + | + | + | + | + | 10 |
| Thymus                 | + | + | + | + | + | + | + | + | + | + | 10 |

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20008-02

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/15/2014

Time Report Requested: 18:05:43

First Dose M/F: NA / NA

Lab: SRI

| B6C3F1 Mouse Male<br>50000 PPM    | DAY ON TEST |   |   |   |   |   |   |   |   |   | *TOTALS |
|-----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---------|
|                                   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
| ANIMAL ID                         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                   | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |         |
| Thymus                            | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10      |
| <b>Integumentary System</b>       |             |   |   |   |   |   |   |   |   |   |         |
| Mammary Gland                     | M           | M | M | M | M | M | M | M | M | M | 0       |
| Skin                              | +           | + | + | + | + | + | + | + | + | + | 10      |
| <b>Musculoskeletal System</b>     |             |   |   |   |   |   |   |   |   |   |         |
| Bone                              | +           | + | + | + | + | + | + | + | + | + | 10      |
| <b>Nervous System</b>             |             |   |   |   |   |   |   |   |   |   |         |
| Brain                             | +           | + | + | + | + | + | + | + | + | + | 10      |
| <b>Respiratory System</b>         |             |   |   |   |   |   |   |   |   |   |         |
| Lung                              | +           | + | + | + | + | + | + | + | + | + | 10      |
| Nose                              | +           | + | + | + | + | + | + | + | + | + | 10      |
| Trachea                           | +           | + | + | + | + | + | + | + | + | + | 10      |
| <b>Special Senses System</b>      |             |   |   |   |   |   |   |   |   |   |         |
| Eye                               | +           | + | + | + | + | + | + | + | + | + | 10      |
| Harderian Gland                   | +           | + | + | + | + | + | + | + | + | + | 10      |
| <b>Urinary System</b>             |             |   |   |   |   |   |   |   |   |   |         |
| Kidney                            | +           | + | + | + | + | + | + | + | + | + | 10      |
| Renal Tubule, Regeneration, Focal | 1           |   |   |   |   | 1 |   |   |   |   | 2 1.0   |
| Urinary Bladder                   | +           | + | + | + | + | + | + | + | + | + | 10      |

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

**Experiment Number:** 20008-02

**Test Type:** 90-DAY

**Route:** DOSED FEED

**Species/Strain:** Mouse/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

**Test Compound:** Milk thistle extract

**CAS Number:** 84604-20-6

**Date Report Requested:** 10/15/2014

**Time Report Requested:** 18:05:43

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

**Lab:** SRI

\*\*\*END OF MALE DATA\*\*\*

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

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Experiment Number: 20008-02

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/15/2014

Time Report Requested: 18:05:43

First Dose M/F: NA / NA

Lab: SRI

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

**Alimentary System**

|                              |   |   |   |   |   |   |   |   |   |   |       |
|------------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Esophagus                    | + | + | + | + | + | + | + | + | + | + | 10    |
| Gallbladder                  | + | + | + | + | + | + | + | + | + | + | 10    |
| Intestine Large, Cecum       | + | + | + | + | + | + | + | + | + | + | 10    |
| Intestine Large, Colon       | + | + | + | + | + | + | + | + | + | + | 10    |
| Intestine Large, Rectum      | + | + | + | + | + | + | + | + | + | + | 10    |
| Intestine Small, Duodenum    | + | + | + | + | + | + | + | + | + | + | 10    |
| Intestine Small, Ileum       | + | + | + | + | + | + | + | + | + | + | 10    |
| Intestine Small, Jejunum     | + | + | + | + | + | + | + | + | + | + | 10    |
| Liver                        | + | + | + | + | + | + | + | + | + | + | 10    |
| Depletion Glycogen           |   |   |   |   |   |   |   |   | 2 |   | 1 2.0 |
| Inflammation, Chronic, Focal | 1 |   |   |   | 1 |   | 1 |   |   |   | 3 1.0 |
| Pancreas                     | + | + | + | + | + | + | + | + | + | + | 10    |
| Salivary Glands              | + | + | + | + | + | + | + | + | + | + | 10    |
| Stomach, Forestomach         | + | + | + | + | + | + | + | + | + | + | 10    |
| Stomach, Glandular           | + | + | + | + | + | + | + | + | + | + | 10    |
| Cyst                         |   |   |   | 1 |   |   |   |   |   |   | 1 1.0 |

**Cardiovascular System**

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

**Endocrine System**

|                |   |   |   |   |   |   |   |   |   |   |    |
|----------------|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | 10 |
|----------------|---|---|---|---|---|---|---|---|---|---|----|

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20008-02

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/15/2014

Time Report Requested: 18:05:43

First Dose M/F: NA / NA

Lab: SRI

| B6C3F1 Mouse Female<br>0 PPM    | DAY ON TEST |   |   |   |   |   |   |   |   |   |         |     |
|---------------------------------|-------------|---|---|---|---|---|---|---|---|---|---------|-----|
|                                 | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |     |
| ANIMAL ID                       | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |     |
|                                 | 3           | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |         |     |
| Vacuolization Cytoplasmic       |             |   |   |   | 1 |   | 1 |   | 1 |   | 3       | 1.0 |
| Adrenal Medulla                 | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| Parathyroid Gland               | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| Pituitary Gland                 | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| Thyroid Gland                   | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| Ectopic Thymus                  | 2           |   |   |   |   |   |   |   |   |   | 1       | 2.0 |
| <b>General Body System</b>      |             |   |   |   |   |   |   |   |   |   |         |     |
| NONE                            |             |   |   |   |   |   |   |   |   |   |         |     |
| <b>Genital System</b>           |             |   |   |   |   |   |   |   |   |   |         |     |
| Clitoral Gland                  | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| Ovary                           | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| Uterus                          | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| <b>Hematopoietic System</b>     |             |   |   |   |   |   |   |   |   |   |         |     |
| Bone Marrow                     | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| Lymph Node, Mandibular          | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| Lymph Node, Mesenteric          | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| Degeneration, Lymphoid, Diffuse |             |   |   |   |   |   |   |   |   | 1 | 1       | 1.0 |
| Spleen                          | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| Thymus                          | +           | + | + | + | + | + | + | + | + | + | 10      |     |
| Degeneration, Lymphoid, Diffuse |             |   |   |   |   |   |   |   |   | 1 | 1       | 1.0 |
| <b>Integumentary System</b>     |             |   |   |   |   |   |   |   |   |   |         |     |

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

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Experiment Number: 20008-02

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/15/2014

Time Report Requested: 18:05:43

First Dose M/F: NA / NA

Lab: SRI

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

**Integumentary System**

|               |   |   |   |   |   |   |   |   |   |   |    |
|---------------|---|---|---|---|---|---|---|---|---|---|----|
| Mammary Gland | + | + | + | + | + | + | + | + | + | + | 10 |
| Skin          | + | + | + | + | + | + | + | + | + | + | 10 |

**Musculoskeletal System**

|      |   |   |   |   |   |   |   |   |   |   |    |
|------|---|---|---|---|---|---|---|---|---|---|----|
| Bone | + | + | + | + | + | + | + | + | + | + | 10 |
|------|---|---|---|---|---|---|---|---|---|---|----|

**Nervous System**

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

**Respiratory System**

|         |   |   |   |   |   |   |   |   |   |   |    |
|---------|---|---|---|---|---|---|---|---|---|---|----|
| Lung    | + | + | + | + | + | + | + | + | + | + | 10 |
| Nose    | + | + | + | + | + | + | + | + | + | + | 10 |
| Trachea | + | + | + | + | + | + | + | + | + | + | 10 |

**Special Senses System**

|  |   |   |   |   |   |   |   |   |   |   |       |
|--|---|---|---|---|---|---|---|---|---|---|-------|
| Eye                                      | + | + | + | + | + | + | + | + | + | + | 10    |
| Retrolbulbar, Inflammation, Acute, Focal |   |   |   |   |   |   |   |   |   | 2 | 1 2.0 |
| Harderian Gland                          | + | + | + | + | + | + | + | + | + | + | 10    |

**Urinary System**

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

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20008-02

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/15/2014

Time Report Requested: 18:05:43

First Dose M/F: NA / NA

Lab: SRI

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

**Alimentary System**

|                              |   |   |   |   |   |   |   |   |   |   |    |     |
|------------------------------|---|---|---|---|---|---|---|---|---|---|----|-----|
| Liver                        | + | + | + | + | + | + | + | + | + | + | 10 |     |
| Inflammation, Chronic, Focal | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 | 1.0 |
| Pancreas                     |   |   | + |   |   |   |   |   |   |   | 1  |     |
| Cyst                         |   |   | 2 |   |   |   |   |   |   |   | 1  | 2.0 |
| Stomach, Forestomach         | + | + | + | + | + | + | + | + | + | + | 10 |     |

**Cardiovascular System**

NONE

**Endocrine System**

|                |  |  |  |  |  |  |  |  |  |  |   |   |
|----------------|--|--|--|--|--|--|--|--|--|--|---|---|
| Adrenal Cortex |  |  |  |  |  |  |  |  |  |  | + | 1 |
|----------------|--|--|--|--|--|--|--|--|--|--|---|---|

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

**Experiment Number:** 20008-02  
**Test Type:** 90-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Mouse/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

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

**Date Report Requested:** 10/15/2014  
**Time Report Requested:** 18:05:43  
**First Dose M/F:** NA / NA  
**Lab:** SRI

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

**Musculoskeletal System**

NONE

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20008-02

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/15/2014

Time Report Requested: 18:05:43

First Dose M/F: NA / NA

Lab: SRI

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

**Alimentary System**

|                              |   |   |   |   |   |   |   |   |   |   |       |
|------------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Liver                        | + | + | + | + | + | + | + | + | + | + | 10    |
| Inflammation, Chronic, Focal | 1 | 1 | 1 | 1 |   | 1 | 1 | 1 | 1 | 1 | 9 1.0 |
| Stomach, Forestomach         | + | + | + | + | + | + | + | + | + | + | 10    |

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20008-02

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Mouse/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/15/2014

Time Report Requested: 18:05:44

First Dose M/F: NA / NA

Lab: SRI

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

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20008-02

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/15/2014

Time Report Requested: 18:05:44

First Dose M/F: NA / NA

Lab: SRI

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

**Alimentary System**

|                              |   |   |   |   |   |   |   |   |   |   |       |
|------------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Liver                        | + | + | + | + | + | + | + | + | + | + | 10    |
| Inflammation, Chronic, Focal | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   | 9 1.0 |
| Stomach, Forestomach         | + | + | + | + | + | + | + | + | + | + | 10    |

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

|                |   |   |
|----------------|---|---|
| Clitoral Gland | + | 1 |
|----------------|---|---|

**Hematopoietic System**

NONE

**Integumentary System**

NONE

**Musculoskeletal System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked



Experiment Number: 20008-02

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Mouse/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/15/2014

Time Report Requested: 18:05:44

First Dose M/F: NA / NA

Lab: SRI

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

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20008-02

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/15/2014

Time Report Requested: 18:05:44

First Dose M/F: NA / NA

Lab: SRI

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

**Alimentary System**

|                              |   |   |   |   |   |   |   |   |   |   |       |
|------------------------------|---|---|---|---|---|---|---|---|---|---|-------|
| Liver                        | + | + | + | + | + | + | + | + | + | + | 10    |
| Inflammation, Chronic, Focal | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |   |   | 8 1.0 |
| Stomach, Forestomach         | + | + | + | + | + | + | + | + | + | + | 10    |
| Hyperplasia, Squamous, Focal | 1 |   |   |   |   |   |   | 1 |   |   | 2 1.0 |
| Stomach, Glandular           | + | + | + | + | + | + | + | + | + | + | 10    |

**Cardiovascular System**

NONE

**Endocrine System**

NONE

**General Body System**

NONE

**Genital System**

NONE

**Hematopoietic System**

NONE

**Integumentary System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20008-02

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Mouse/B6C3F1

**P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL**

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/15/2014

Time Report Requested: 18:05:44

First Dose M/F: NA / NA

Lab: SRI

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

**Musculoskeletal System**

NONE

**Nervous System**

NONE

**Respiratory System**

NONE

**Special Senses System**

NONE

**Urinary System**

NONE

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20008-02

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/15/2014

Time Report Requested: 18:05:44

First Dose M/F: NA / NA

Lab: SRI

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

Alimentary System

|                              |   |   |   |   |   |   |   |   |   |   |        |
|------------------------------|---|---|---|---|---|---|---|---|---|---|--------|
| Esophagus                    | + | + | + | + | + | + | + | + | + | + | 10     |
| Gallbladder                  | + | + | + | + | + | + | + | + | + | + | 10     |
| Intestine Large, Cecum       | + | + | + | + | + | + | + | + | + | + | 10     |
| Intestine Large, Colon       | + | + | + | + | + | + | + | + | + | + | 10     |
| Intestine Large, Rectum      | + | + | + | + | + | + | + | + | + | + | 10     |
| Intestine Small, Duodenum    | + | + | + | + | + | + | + | + | + | + | 10     |
| Intestine Small, Ileum       | + | + | + | + | + | + | + | + | + | + | 10     |
| Intestine Small, Jejunum     | + | + | + | + | + | + | + | + | + | + | 10     |
| Liver                        | + | + | + | + | + | + | + | + | + | + | 10     |
| Inflammation, Chronic, Focal | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 10 1.0 |
| Pancreas                     | + | + | + | + | + | + | + | + | + | + | 10     |
| Salivary Glands              | + | + | + | + | + | + | + | + | + | + | 10     |
| Stomach, Forestomach         | + | + | + | + | + | + | + | + | + | + | 10     |
| Hyperplasia, Squamous, Focal | 2 |   |   |   | 2 |   |   |   |   |   | 2 2.0  |
| Ulcer, Focal                 |   |   |   |   | 1 |   |   |   |   |   | 1 1.0  |
| Stomach, Glandular           | + | + | + | + | + | + | + | + | + | + | 10     |

Cardiovascular System

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

Endocrine System

|                |   |   |   |   |   |   |   |   |   |   |    |
|----------------|---|---|---|---|---|---|---|---|---|---|----|
| Adrenal Cortex | + | + | + | + | + | + | + | + | + | + | 10 |
|----------------|---|---|---|---|---|---|---|---|---|---|----|

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 20008-02

Test Type: 90-DAY

Route: DOSED FEED

Species/Strain: Mouse/B6C3F1

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/15/2014

Time Report Requested: 18:05:44

First Dose M/F: NA / NA

Lab: SRI

| B6C3F1 Mouse Female<br>50000 PPM  | DAY ON TEST |   |   |   |   |   |   |   |   |   | *TOTALS |
|-----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---------|
|                                   | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
| ANIMAL ID                         | 0           | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |         |
|                                   | 1           | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |         |
|                                   | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |         |
| Accessory Adrenal Cortical Nodule |             |   |   | X |   |   |   |   |   |   | 1       |
| Adrenal Medulla                   | +           | + | + | + | + | + | + | + | + | + | 10      |
| Parathyroid Gland                 | +           | + | + | + | + | + | + | + | + | + | 10      |
| Pituitary Gland                   | +           | + | + | M | + | + | + | + | + | + | 9       |
| Thyroid Gland                     | +           | + | + | + | + | + | + | + | + | + | 10      |
| <b>General Body System</b>        |             |   |   |   |   |   |   |   |   |   |         |
| NONE                              |             |   |   |   |   |   |   |   |   |   |         |
| <b>Genital System</b>             |             |   |   |   |   |   |   |   |   |   |         |
| Clitoral Gland                    | +           | + | + | + | + | + | + | + | + | + | 10      |
| Ovary                             | +           | + | + | + | + | + | + | + | + | + | 10      |
| Uterus                            | +           | + | + | + | + | + | + | + | + | + | 10      |
| <b>Hematopoietic System</b>       |             |   |   |   |   |   |   |   |   |   |         |
| Bone Marrow                       | +           | + | + | + | + | + | + | + | + | + | 10      |
| Lymph Node, Mandibular            | +           | + | + | + | + | + | + | + | + | + | 10      |
| Lymph Node, Mesenteric            | +           | + | + | + | + | + | + | + | + | + | 10      |
| Degeneration, Lymphoid, Diffuse   |             |   |   |   |   |   | 1 | 1 | 2 |   | 3 1.3   |
| Spleen                            | +           | + | + | + | + | + | + | + | + | + | 10      |
| Thymus                            | +           | + | + | + | + | + | + | + | + | + | 10      |
| <b>Integumentary System</b>       |             |   |   |   |   |   |   |   |   |   |         |
| Mammary Gland                     | +           | + | + | + | + | + | + | + | + | + | 10      |
| Skin                              | +           | + | + | + | + | + | + | + | + | + | 10      |

\* ..Total animals with tissue examined microscopically; Total animals with lesion and mean severity grade

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

