Species/Strain: Rat/F 344/N

Test Type: 90-DAY

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

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

Time Report Requested: 09:05:14

Date Report Requested: 10/21/2014

First Dose M/F: NA / NA

Lab: SRI

C Number: C20008

**Lock Date:** 11/08/2002

**Cage Range:** ΑII

ΑII **Date Range:** 

**Reasons For Removal:** ΑII

**Removal Date Range:** ΑII

**Treatment Groups:** ΑII

**Study Gender:** Both

**PWG Approval Date NONE** 

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

First Dose M/F: NA / NA

Date Report Requested: 10/21/2014

Time Report Requested: 09:05:14

Lab: SRI

F 344/N Rat Male 0 PPM	DAY ON TEST	0 9 3 0 0 0 0	0 9 3 0 0 0 0 2	0 9 3 0 0 0 0 3	0 9 3 0 0 0 0 4	0 9 3 0 0 0 0 5	0 9 3 0 0 0 0 6	0 9 3 0 0 0 0 7	0 9 3 0 0 0 0 8	0 9 3 0 0 0 0 9	0 9 3 0 0 0 1	*TOTALS
Alimentary System												
Esophagus		+	+	+	+	+	+	+	+	+	+	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
Pancreas		+	+	+	+	+	+	+	+	+	+	10
Salivary Glands		+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	10
Cardiovascular System												
Heart		+	+	+	+	+	+	+	+	+	+	10
Endocrine System												
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	10

Thyroid Gland

M ..Missing tissue

10

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Test Type: 90-DAY

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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

Species/Strain: Rat/F 344/N

Time Report Requested: 09:05:14

First Dose M/F: NA / NA

Date Report Requested: 10/21/2014

Lab: SRI

F 344/N Rat Male 0 PPM	DAY ON TEST	0 9 3 0 0 0 0	0 9 3 0 0 0 0	0 9 3 0 0 0 0 3	0 9 3 0 0 0 0 4	0 9 3 0 0 0 0 5	0 9 3 0 0 0 0 6	0 9 3 0 0 0 0 7	0 9 3 0 0 0 0 8	0 9 3 0 0 0 0	0 9 3 0 0 0 1	*TOTALS
General Body System												
NONE Genital System												
Epididymis		+	+	+	+	+	+	+	+	+	+	10
Preputial Gland		+	+	+	+	+	+	+	+	+	+	10
Prostate		+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	10

-,,		
Lymph Node, Mesenteric	+	+
Spleen	+	+
Thymus	+	+
Integumentary System		
Mammary Gland	+	+

10 Skin 10

**Musculoskeletal System** 

Bone 10

Testes

**Hematopoietic System** 

Lymph Node, Mandibular

**Bone Marrow** 

Lymph Node

10

10

1

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

P04: NEOPLASMS BY INDIVIDUAL ANIMAL Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Test Type: 90-DAY Species/Strain: Rat/F 344/N

Date Report Requested: 10/21/2014 Time Report Requested: 09:05:14

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Male 0 PPM	DAY ON TEST	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	
	ANIMAL ID	0 0 0 0	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 1 0	*TOTALS
Nervous System												
Brain		+	+	+	+	+	+	+	+	+	+	10
Respiratory System												
Lung		+	+	+	+	+	+	+	+	+	+	10
Nose		+	+	+	+	+	+	+	+	+	+	10
Trachea		+	+	+	+	+	+	+	+	+	+	10
Special Senses System												

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X ..Lesion present

Eye

Harderian Gland

Lacrimal Gland

Urinary Bladder

Multiple Organ

SYSTEMIC LESIONS

**Urinary System** 

Kidney

I .. Insufficient tissue

M .. Missing tissue

10

10

1

10

10

10

A .. Autolysis precludes evaluation

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Type: 90-DAY Test Compound: Milk thistle extract Species/Strain: Rat/F 344/N

CAS Number: 84604-20-6

\*TOTALS

First Dose M/F: NA / NA

Lab: SRI

Date Report Requested: 10/21/2014

Time Report Requested: 09:05:14

F 344/	N Rat 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
V VIII VVI ID	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
	1	1	1	1	1	1	1	1	1	2
	1	2	3	4	5	6	7	8	9	0

**Alimentary System** 

Liver 1

**Cardiovascular System** 

10 Heart

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

NONE

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

X ..Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Type: 90-DAY

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

CAS Number: 84604-20-6

First Dose M/F: NA / NA

Date Report Requested: 10/21/2014

Time Report Requested: 09:05:14

Lab: SRI

F 344/N Rat 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
V VIII VIVI ID	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
	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

**SYSTEMIC LESIONS** 

Multiple Organ 10

X ..Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Type: 90-DAY Test Compound: Milk thistle extract Species/Strain: Rat/F 344/N

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:05:14

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Male 6250 PPM	DAY ON TEST	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	
	ANIMAL ID	0 0 0 2 1	0 0 0 2 2	0 0 0 2 3	0 0 0 2 4	0 0 0 2 5	0 0 0 2 6	0 0 0 2 7	0 0 0 2 8	0 0 0 2 9	0 0 0 3 0	*TOTALS
Alimentary System												
Liver Cardiovascular System		+	+	+	+	+	+	+	+	+	+	10

Heart **Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

Skin 1

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

I .. Insufficient tissue

M .. Missing tissue

10

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X ..Lesion present

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Type: 90-DAY

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

CAS Number: 84604-20-6

Lab: SRI

Date Report Requested: 10/21/2014

Time Report Requested: 09:05:14

First Dose M/F: NA / NA

	DAY ON TEST	0	0	0	0	0	0	0	0	0	0
F 344/N Rat Male		$\left  egin{array}{c} 0 \\ o \end{array} \right $	0	0	$\begin{vmatrix} 0 \\ q \end{vmatrix}$	0	0	0	$\begin{vmatrix} \theta \\ \mathbf{q} \end{vmatrix}$	0	9
6250 PPM		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
		2	2	2	2	2	2	2	2	2	3
		1	2	-3	l 4	5	1 6	l 7	l 8	9	Ω

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

Kidney + + + + + + + + + + + + + + + + 10 **SYSTEMIC LESIONS**Multiple Organ + + + + + + + + + + + + + 10

M ..Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

Test Type: 90-DAY

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N CAS Number: 84604-20-6 Date Report Requested: 10/21/2014 Time Report Requested: 09:05:14

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Male 12500 PPM	DAY ON TEST	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	
	ANIMAL ID	0 0 0 3 1	0 0 0 3 2	0 0 0 3 3	0 0 0 3 4	0 0 0 3 5	0 0 0 3 6	0 0 0 3 7	0 0 0 3 8	0 0 0 3 9	0 0 0 4 0	*TOTALS
Alimentary System												
Liver		+	+	+	+	+	+	+	+	+	+	10

**Cardiovascular System** 

10 Heart

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

NONE

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

X ..Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/21/2014

Time Report Requested: 09:05:15

First Dose M/F: NA / NA

Lab: SRI

Test Type: 90-DAY

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

CAS Number: 84604-20-6

	_										
	DAY ON TEST	0	0	0	0	0	0	0	0	0	0
F 344/N Rat Male		0	0	0	0	0	0	0	0	0	0
r 344/IN Rat IVIale		9	9	9	9	9	9	9	9	9	9
12500 PPM		3	3	3	3	3	3	3	3	3	3
	ANIMAL ID	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
		3	3	3	3	3	3	3	3	3	4
		1	2	3	4	5	6	7	8	9	0

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

Multiple Organ

Kidney + + + + + + + + + + + + + + 10 **SYSTEMIC LESIONS** 

\* ..Total animals with tissue examined microscopically; Total animals with tumor

+ .. Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

M ..Missing tissue

10

A .. Autolysis precludes evaluation

Species/Strain: Rat/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:05:15

First Dose M/F: NA / NA

Lab: SRI

F 344/N	Rat Male
25000	PPM

Test Type: 90-DAY

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
V VIIIVAVI ID	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
	4	4	4	4	4	4	4	4	4	5
	1	2	3	4	5	6	7	8	9	0

\*TOTALS

**Alimentary System** 

**Cardiovascular System** 

Heart + + + + + + + + + + + 10

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

NONE

**Musculoskeletal System** 

NONE

**Nervous System** 

NONE

X ..Lesion present

I .. Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

Lab: SRI

Date Report Requested: 10/21/2014

Time Report Requested: 09:05:15

First Dose M/F: NA / NA

F 344/N Rat Male 25000 PPM	DAY ON TEST	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	
	ANIMAL ID	0 0 0 4 1	0 0 0 4 2	0 0 0 4 3	0 0 0 4 4	0 0 0 4 5	0 0 0 4 6	0 0 0 4 7	0 0 0 4 8	0 0 0 4 9	0 0 0 5 0	*TOTALS

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X ..Lesion present

Species/Strain: Rat/F 344/N

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Lab: SRI

First Dose M/F: NA / NA

Date Report Requested: 10/21/2014

Time Report Requested: 09:05:15

F 344/N	I Rat Male
50000	PPM

Test Type: 90-DAY

	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	
F 344/N Rat Male		9	0	9	<i>0</i>	<i>0</i>	<i>0</i>	<i>0</i>	9	0	<i>0</i>	
50000 PPM		3	3	3	3	3	3	3	3	3	3	
	ANIMAL ID	0 0 0 5 1	0 0 0 5 2	0 0 0 5 3	0 0 0 5 4	00055	00056	0 0 0 5 7	00058	00059	00060	*TOTALS
Alimentary System												
Esophagus		+	+	+	+	+	+	+	+	+	+	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
Pancreas		+	+	+	+	+	+	+	+	+	+	10
Salivary Glands		+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	10
Cardiovascular System												
Heart		+	+	+	+	+	+	+	+	+	+	10
Endocrine System												
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	10

Thyroid Gland

M .. Missing tissue

10

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup>Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:05:15

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Male 50000 PPM	DAY ON TEST	0 9 3 0 0 0 5	0 9 3 0 0 0 5 2	0 9 3 0 0 0 5 3	0 9 3 0 0 0 5 4	0 9 3 0 0 0 5 5	0 9 3 0 0 0 5 6	0 9 3 0 0 0 5 7	0 9 3 0 0 0 5 8	0 9 3 0 0 0 5 9	0 9 3 0 0 0 6	*TOTALS
General Body System	-			-		-						
NONE												
Genital System												
Epididymis		+	+	+	+	+	+	+	+	+	+	10
Preputial Gland		+	+	+	+	+	+	+	+	+	+	10
Prostate		+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle		+	+	+	+	+	+	+	+	+	+	10

Testes

Spleen

Thymus

Skin

Bone

**Hematopoietic System** 

**Integumentary System** 

**Musculoskeletal System** 

Mammary Gland

Lymph Node, Mandibular

Lymph Node, Mesenteric

**Bone Marrow** 

Lymph Node

M ..Missing tissue

10

10

1

0

10

10

10

10

10

10

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

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

Lab: SRI

Date Report Requested: 10/21/2014

Time Report Requested: 09:05:15

First Dose M/F: NA / NA

F 344/N Rat Male 50000 PPM	DAY ON TEST	0 0 9 3										
	ANIMAL ID	0 0 0 5 1	0 0 0 5 2	0 0 0 5 3	0 0 0 5 4	0 0 0 5 5	0 0 0 5 6	0 0 0 5 7	0 0 0 5 8	0 0 0 5 9	0 0 0 6 0	*TOTALS
Nervous System												
Brain Respiratory System		+	+	+	+	+	+	+	+	+	+	10
Lung		+	+	+	+	+	+	+	+	+	+	10
Nose		+	+	+	+	+	+	+	+	+	+	10
Trachea		+	+	+	+	+	+	+	+	+	+	10
Special Senses System												
Eye		+	+	+	+	+	+	+	+	+	+	10
Harderian Gland Lacrimal Gland		+	+	+	+	+	+	+	+	+	+	10 1
Urinary System												
Kidney		+	+	+	+	+	+	+	+	+	+	10
Urinary Bladder SYSTEMIC LESIONS		+	+	+	+	+	+	+	+	+	+	10
Multiple Organ		+	+	+	+	+	+	+	+	+	+	10
								***	ENE	0 0	FΝ	IALE DATA***

M ..Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup>Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/21/2014

Time Report Requested: 09:05:15

First Dose M/F: NA / NA

Lab: SRI

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

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

F 344/N Rat Female 0 PPM	DAY ON TEST	0 9 3 0 0 0 6 1	0 9 3 0 0 0 6 2	0 9 3 0 0 0 6 3	0 9 3 0 0 0 6 4	0 9 3 0 0 0 6 5	0 9 3 0 0 0 6 6	0 9 3 0 0 0 6 7	0 9 3 0 0 0 6 8	0 9 3 0 0 0 6 9	0 9 3 0 0 0 7	*TOTALS
Alimentary System												
Esophagus Intestine Large, Cecum		+	+	+	+	+	+	+	+	+	+	10 10
Intestine Large, Colon		+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum		+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Duodenum		+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum		+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum		+	+	+	+	+	+	+	+	+	+	10
Liver		+	+	+	+	+	+	+	+	+	+	10
Pancreas		+	+	+	+	+	+	+	+	+	+	10
Salivary Glands		+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	10
Tooth Cardiovascular System					+							1
												40
Heart Endocrine System		+	+	+	+	+	+	+	+	+	+	10
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	10

M ..Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup>Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/21/2014

Time Report Requested: 09:05:15

First Dose M/F: NA / NA

Lab: SRI

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	]
F 344/N Rat Female 0 PPM	DAT ON 1EST	0 9 3	0 9 3	0 0 9 3	0 9 3	0 9 3	0 9 3	0 0 9 3	0 9 3	0 9 3	0 0 9 3	
0 11111	ANIMAL ID	0 0 0 6 1	0 0 0 6 2	0 0 0 6 3	0 0 0 6 4	0 0 0 6 5	0 0 0 6 6	0 0 0 6 7	0 0 0 6 8	0 0 0 6 9	0 0 0 7 0	*TOTALS
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	10
General Body System												
NONE												
Genital System												
Clitoral Gland		+	+	+	+	+	+	+	+	+	+	10
Ovary		+	+	+	+	+	+	+	+	+	+	10
Uterus		+	+	+	+	+	+	+	+	+	+	10
Hematopoietic System												
Bone Marrow		+	+	+	+	+	+	+	+	+	+	10
Lymph Node					+							1
Lymph Node, Mandibular		М	M	М	M	M	M	+	M	+	M	2
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	10
Spleen		+	+	+	+	+	+	+	+	+	+	10
Thymus		+	+	+	+	+	+	+	+	+	+	10
Integumentary System												
Mammary Gland		+	+	+	+	+	+	+	+	+	+	10
Skin		+	+	+	+	+	+	+	+	+	+	10
Musculoskeletal System												

Bone

10

 $<sup>^{\</sup>star}\,$  ..Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup>Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

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

Lab: SRI

Date Report Requested: 10/21/2014

Time Report Requested: 09:05:15

First Dose M/F: NA / NA

F 344/N Rat Female 0 PPM	DAY ON TEST	0 9 3 0 0 0 6 1	0 9 3 0 0 0 6 2	0 9 3 0 0 0 6 3	0 9 3 0 0 0 0 6 4	0 9 3 0 0 0 6 5	0 9 3 0 0 0 6 6	0 9 3 0 0 0 6 7	0 9 3 0 0 0 0 6 8	0 9 3 0 0 0 6 9	0 9 3 0 0 0 7 0	*TOTALS
Nervous System												
Brain		+	+	+	+	+	+	+	+	+	+	10
Respiratory System												
Lung		+	+	+	+	+	+	+	+	+	+	10
Nose		+	+	+	+	+	+	+	+	+	+	10
Trachea		+	+	+	+	+	+	+	+	+	+	10
Special Senses System												
Eye		+	+	+	+	+	+	+	+	+	+	10
Harderian Gland		+	+	+	+	+	+	+	+	+	+	10
Urinary System												
Kidney		+	+	+	+	+	+	+	+	+	+	10
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	10
SYSTEMIC LESIONS												
Multiple Organ		+	+	+	+	+	+	+	+	+	+	10

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup>Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

Test Type: 90-DAY

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

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

Species/Strain: Rat/F 344/N

Date Report Requested: 10/21/2014 Time Report Requested: 09:05:15

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Female 3125 PPM	DAY ON TEST	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	0 0 9 3	
	ANIMAL ID	0 0 0 7 1	0 0 0 7 2	0 0 0 7 3	0 0 0 7 4	0 0 7 5	0 0 0 7 6	0 0 0 7 7	0 0 0 7 8	0 0 0 7 9	0 0 8 0	*TOTALS
Alimentary System												
Liver		+	+	+	+	+	+	+	+	+	+	10
Salivary Glands  Cardiovascular System		+	+	+	+	+	+	+	+	+	+	10
NONE												
<b>Endocrine System</b>												
NONE General Body System												
NONE Genital System												
Clitoral Gland Uterus						+					+	1
Hematopoietic System						_						'
NONE Integumentary System												
NONE Musculoskeletal System												

NONE

I .. Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X ..Lesion present

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

CAS Number: 84604-20-6

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

Test Compound: Milk thistle extract

Date Report Requested: 10/21/2014

Time Report Requested: 09:05:15

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Female 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
V VIIIVAVI ID	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
	7	7	7	7	7	7	7	7	7	8
	1	2	3	4	5	6	7	8	9	0

\*TOTALS

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

**SYSTEMIC LESIONS** 

10 Multiple Organ

X ..Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

Test Type: 90-DAY

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

**Test Compound:** Milk thistle extract

Species/Strain: Rat/F 344/N CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:05:15

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Female 6250 PPM	DAY ON TEST  ANIMAL ID	0 9 3 0 0 0 8 1	0 9 3 0 0 0 8 2	0 9 3 0 0 0 8 3	0 9 3 0 0 0 8 4	0 9 3 0 0 0 8 5	0 9 3 0 0 0 8 6	0 9 3 0 0 0 8 7	0 9 3 0 0 0 8 8	0 9 3 0 0 0 8 9	0 9 3 0 0 0 9 0	*TOTALS
Alimentary System  Liver Salivary Glands  Cardiovascular System		+	+	+	+	+	+	+	+	+	+	10 10
NONE Endocrine System												
NONE General Body System												
NONE Genital System												
Clitoral Gland Hematopoietic System									+			1
Lymph Node Integumentary System					+	+						2
NONE Musculoskeletal System												
NONE												

**Nervous System** 

I .. Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X ..Lesion present

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Type: 90-DAY

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

CAS Number: 84604-20-6

Lab: SRI

Date Report Requested: 10/21/2014

Time Report Requested: 09:05:15

First Dose M/F: NA / NA

F 344/	N Rat	Female
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
ANUMAL ID	3	3	3	3	3	3	3	3	3	3
	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
	8	8	8	8	8	8	8	8	8	9
	1	2	3	4	5	6	7	8	9	0

\*TOTALS

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

**SYSTEMIC LESIONS** 

Multiple Organ + + + + + + + + + + + 10

X ..Lesion present

I ..Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Type: 90-DAY

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:05:15

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Female 12500 PPM	DAY ON TEST  ANIMAL ID	0 9 3 0 0 0 9 1	0 9 3 0 0 0 9 2	0 9 3 0 0 0 9 3	0 9 3 0 0 0 9 4	0 9 3 0 0 0 9 5	0 9 3 0 0 0 9 6	0 9 3 0 0 0 9 7	0 9 3 0 0 0 9 8	0 9 3 0 0 0 9 9	0 9 3 0 0 1 0	*TOTALS
Alimentary System												
Liver Salivary Glands Cardiovascular System		+ +	+ +	10 10								
NONE Endocrine System												
NONE General Body System												
NONE Genital System												
Clitoral Gland Uterus Hematopoietic System						+	+			+		1 2
Lymph Node							+					1

**Integumentary System** 

**Musculoskeletal System** 

NONE

NONE

M ..Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Type: 90-DAY

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

CAS Number: 84604-20-6

Time Report Requested: 09:05:15

Date Report Requested: 10/21/2014

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Female 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
A N II M A A I I I I I I I I I I I I I I I	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
	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	1
	9	9	9	9	9	9	9	9	9	0
	1	2	3	4	5	6	7	8	9	0

\*TOTALS

**Nervous System** 

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

**SYSTEMIC LESIONS** 

10 Multiple Organ

X ..Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

D

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

First Dose M/F: NA / NA

Date Report Requested: 10/21/2014

Time Report Requested: 09:05:15

Lab: SRI

F 344/N	I Rat Female
25000	PPM

AY ON TEST	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
ANIMAL ID	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
	0	0	0	0	0	0	0	0	0	0
AMIMAL ID	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

\*TOTALS

**Alimentary System** 

Liver 10 7

Salivary Glands

**Cardiovascular System** 

NONE

**Endocrine System** 

NONE

**General Body System** 

NONE

**Genital System** 

NONE

**Hematopoietic System** 

NONE

**Integumentary System** 

NONE

**Musculoskeletal System** 

NONE

**Nervous System** 

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

X ..Lesion present

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Type: 90-DAY

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

CAS Number: 84604-20-6

Lab: SRI

Date Report Requested: 10/21/2014

Time Report Requested: 09:05:15

First Dose M/F: NA / NA

F 344/N	l Rat Female
25000	PPM

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

\*TOTALS

NONE

**Respiratory System** 

NONE

**Special Senses System** 

NONE

**Urinary System** 

NONE

**SYSTEMIC LESIONS** 

Multiple Organ + + + + + + + + + + + 10

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup> Tissue examined microscopically

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract Test Type: 90-DAY Species/Strain: Rat/F 344/N

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

Date Report Requested: 10/21/2014 Time Report Requested: 09:05:15

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Female 50000 PPM	DAY ON TEST  ANIMAL ID	0 9 3 0 0 1 1	0 9 3 0 0 1 1 2	0 9 3 0 0 1 1 3	0 9 3 0 0 1 1 4	0 9 3 0 0 1 1 5	0 9 3 0 0 1 1 6	0 9 3 0 0 1 1 7	0 9 3 0 0 1 1 8	0 9 3 0 0 1 1 9	0 9 3 0 0 1 2	*TOTALS
Alimentary System												
Esophagus		+	+	+	М	+	+	+	+	+	+	9
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
Pancreas		+	+	+	+	+	+	+	+	+	+	10
Salivary Glands		+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach		+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular		+	+	+	+	+	+	+	+	+	+	10
Cardiovascular System												
Heart		+	+	+	+	+	+	+	+	+	+	10
Endocrine System												
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland		1	+	+	+	+	+	+	+	+	+	9
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	10

M .. Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup>Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Test Type: 90-DAY

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Test Compound: Milk thistle extract

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

Date Report Requested: 10/21/2014 Time Report Requested: 09:05:15

First Dose M/F: NA / NA

Lab: SRI

F 344/N	I Rat Female
50000	PPM

Species/Strain: Rat/F 344/N

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

\*TOTALS

NONE

Genital System											
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10
Ovary	+	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	+	10
Hematopoietic System											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular	M	М	М	M	+	М	M	M	М	M	1
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
Integumentary System											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
Musculoskeletal System											
Bone	+	+	+	+	+	+	+	+	+	+	10
Nervous System											
Brain	+	+	+	+	+	+	+	+	+	+	10

M .. Missing tissue

A .. Autolysis precludes evaluation

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup>Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

P04: NEOPLASMS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/21/2014

Time Report Requested: 09:05:16

First Dose M/F: NA / NA

Lab: SRI

Test Type: 90-DAY

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

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

F 344/N Rat Female 50000 PPM	DAY ON TEST  ANIMAL ID	0 9 3 0 0 1 1	0 9 3 0 0 1 1 2	0 9 3 0 0 1 1 3	0 9 3 0 0 1 1 4	0 9 3 0 0 1 1 5	0 9 3 0 0 1 1 6	0 9 3 0 0 1 1	0 9 3 0 0 1 1 8	0 9 3 0 0 1 1	0 9 3 0 0 1 2	*TOTALS
Respiratory System												
Lung		+	+	+	+	+	+	+	+	+	+	10
Nose		+	+	+	+	+	+	+	+	+	+	10
Trachea		+	+	+	+	+	+	+	+	+	+	10
Special Senses System												
Eye		+	+	+	+	+	+	+	+	+	+	10
Harderian Gland		+	+	+	+	+	+	+	+	+	+	10
Urinary System												
Kidney		+	+	+	+	+	+	+	+	+	+	10
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	10
SYSTEMIC LESIONS												
Multiple Organ		+	+	+	+	+	+	+	+	+	+	10
** END OF REPORT **								REPORT **				

<sup>\* ..</sup>Total animals with tissue examined microscopically; Total animals with tumor

<sup>+ ..</sup>Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation