Species/Strain: Rat/F 344/N

Test Type: 90-DAY

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:04:55

First Dose M/F: NA / NA

Lab: SRI

C Number: C20008

Lock Date: 11/08/2002

Cage Range: All

Date Range: All

Reasons For Removal:

Removal Date Range: All

Treatment Groups: All

Study Gender: Both

PWG Approval Date NONE

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:04:55

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Male 0 PPM Alimentary System	DAY ON TEST ANIMAL ID	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 0	*TOTALS
												40
Esophagus		+	+	+	+	+	+	+	+	+	+	10 10
Intestine Large, Cecum		+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon 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		+	+	+	+	+	+	+	+	+	+	10

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:04:55

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Male 0 PPM	DAY ON TEST	<i>0 9 3</i>	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 0 1 0	*TOTALS
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									+			1
Lymph Node, Mandibular		М	М	М	М	М	М	М	М	+	M	1
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	10
Spleen		+	+	+	+	+	+	+	+	+	+	10
Thymus		+	+	+	+	+	+	+	+	+	+	10
Integumentary System												
Mammary Gland		+	+	+	+	+	+	+	+	+	+	10

Musculoskeletal System

Skin

Bone

10

10

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

^{+ ..}Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 **Time Report Requested:** 09:04:55

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Male 0 PPM	DAY ON TEST ANIMAL ID	0 9 3 0 0 0 0	0 9 3 0 0 0 0 2	0 9 3 0 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
Nervous System												
Brain Respiratory System		+	+	+	+	+	+	+	+	+	+	10
Lung		+	+	+	+	+	+	+	+	+	+	10
Nose		+	+	+	+	+	+	+	+	+	+	10
Trachea		+	+	+	+	+	+	+	+	+	+	10
Special Senses System												
Eye		+	+	+	+	+	+	+	+	+	+	10
Harderian Gland		+	+	+	+	+	+	+	+	+	+	10
Lacrimal Gland		+										1
Urinary System												
Kidney		+	+	+	+	+	+	+	+	+	+	10
Urinary Bladder		+	+	+	+	+	+	+	+	+	+	10
SYSTEMIC LESIONS												
Multiple Organ		+	+	+	+	+	+	+	+	+	+	10

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

Time Report Requested: 09:04:55

Date Report Requested: 10/21/2014

First Dose M/F: NA / NA

Lab: SRI

		DATON
F 344	/N Rat Male	
3125	PPM	
		ΔΝΙΙ

DAY ON TEST	0	0	0	0	0	0	0	0	0	0
	Ŏ	Ö	Ö	Ö	Ö	Ö	Ö	Ö	Ö	Ö
	9	9	9	9	9	9	9	9	9	9
	3	3	3	3	3	3	3	3	3	3
A N II M A A I I I I I	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

Alimentary System

Liver + 1

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

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

X ..Lesion present

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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: 09:04:55

First Dose M/F: NA / NA

Lab: SRI

F 344/N	N Rat	Male
3125	PPM	

0
1
10
9
3
0
0
0
2
0
_

*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

SYSTEMIC LESIONS

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:04:55

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Male 6250 PPM	DAY ON TEST ANIMAL ID	0 9 3 0 0 0 2 1	0 9 3 0 0 0 2 2	0 9 3 0 0 0 2 3	0 9 3 0 0 0 2 4	0 9 3 0 0 0 2 5	0 9 3 0 0 0 2 6	0 9 3 0 0 0 2 7	0 9 3 0 0 0 2 8	0 9 3 0 0 0 2 9	0 9 3 0 0 0 3 0	*TOTALS
Alimentary System												
Liver		+	+	+	+	+	+	+	+	+	+	10
Cardiovascular System												
Heart		+	+	+	+	+	+	+	+	+	+	10
Endocrine System												
NONE General Body System												
NONE												
Genital System												
NONE Hematopoietic System												
NONE Integumentary System												
Skin Musculoskeletal System		+										1

NONE
Nervous System

NONE

M ..Missing tissue

A .. Autolysis precludes evaluation

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

^{+ ..} Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:04:55

First Dose M/F: NA / NA

Lab: SRI

	DAY ON TEST	0	0	0	0	0	0	0	0	0	0	İ
F 344/N Rat Male		0	0	0	0	0	0	0	0	0	9	l
6250 PPM		3	3	3	3	3	3	3	3	3	3	l
3233 3 3 44	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	İ
		0	0	0	0	0	0	0	0	0	0	Ì
		0	0	0	0	0	0	0	0	0	0	Ì
		2	2	2	2	2	2	2	2	2	3	*TOTALC
		1	2	3	4	5	6	7	8	9	0	*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

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

Multiple Organ

- + + + + + + + + 10

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

0 | 0

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:04:55

First Dose M/F: NA / NA

Lab: SRI

	DAY ON TEST	0	0	0	0	0	Ì
F 344/N Rat Male		0	0	0	0	0	Ì
r 344/IN Kal IVIale		9	9	9	9	9	ì
12500 PPM		3	3	3	3	3	1
	V VIIVAVI ID	0	0	0	0	0	
	ANIMAL ID	0	0	0	0	0	l

0 0 0 0 0 9 3 9 3 0 0 0 3 6 9 9 9 3 3 3 0 0 0 Ō 0 0 0 3 8 0 0 3 2 0 3 5 0 3 3 0 3 4 0 3 1 0 3 7 0 3 9 0 4 0

*TOTALS

Alimentary System

Cardiovascular System

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

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

Time Report Requested: 09:04:55

Date Report Requested: 10/21/2014

First Dose M/F: NA / NA

Lab: SRI

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

*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

Kidney 10

SYSTEMIC LESIONS

Multiple Organ 10

X ..Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

CAS Number: 84604-20-6

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

First Dose M/F: NA / NA

Date Report Requested: 10/21/2014

Time Report Requested: 09:04:55

Lab: SRI

F 344/N	Rat	Male
25000	PPN	1

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 VIIVAVI 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

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

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:04:55

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Male	DAY ON TEST	0 0 9	0 0 9	0 0 9	0 0 9	0 0 9	0 0 9	0 0 9	0 0 9	0 0 9	0 0 9	
25000 PPM		3	3	3	3	3	3	3	3	3	3	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	ANIIVIAL 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

Respiratory System

NONE

Special Senses System

NONE

Urinary System

Kidney + + + + + + + + + + + + + + + 10

SYSTEMIC LESIONS

X ..Lesion present

I .. Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:04:55

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Male 50000 PPM	DAY ON TEST ANIMAL ID	0 9 3 0 0 0 5 1	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 0	*TOTALS
Facilities												40
Esophagus		+	+	+	+	+	+	+	+	+	+	10 10
Intestine Large, Cecum		+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon 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		+	+	+	+	+	+	+	+	+	+	10

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

Time Report Requested: 09:04:55

Date Report Requested: 10/21/2014

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Male 50000 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 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
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			+									1
Lymph Node, Mandibular		М	М	М	М	М	М	M	М	М	M	0
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	10
Spleen		+	+	+	+	+	+	+	+	+	+	10
Thymus		+	+	+	+	+	+	+	+	+	+	10
Integumentary System												
Mammary Gland		+	+	+	+	+	+	+	+	+	+	10
Skin		+	+	+	+	+	+	+	+	+	+	10
Musculoskeletal System												

Bone

M .. Missing tissue

10

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

Test Type: 90-DAY

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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:** 09:04:55

First Dose M/F: NA / NA

Lab: SRI

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

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:04:56

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Female 0 PPM	DAY ON TEST ANIMAL ID	0 9 3 0	0 0 9 3 0	0 0 9 3 0	0 9 3 0 0	0 0 9 3 0	0 0 9 3 0	0 9 3 0 0	0 0 9 3 0	0 9 3 0 0	0 0 9 3	
		0 6 1	0 6 2	0 6 3	0 6 4	0 6 5	0 6 6	0 6 7	0 6 8	0 6 9	0 7 0	*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
Tooth					+							1
Cardiovascular System												
Heart		+	+	+	+	+	+	+	+	+	+	10
Endocrine System												
Adrenal Cortex		+	+	+	+	+	+	+	+	+	+	10
Adrenal Medulla		+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland		+	+	+	+	+	+	+	+	+	+	10
Pituitary Gland		+	+	+	+	+	+	+	+	+	+	10

M ..Missing tissue

A .. Autolysis precludes evaluation

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

^{+ ..}Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:04:56

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Female 0 PPM	DAY ON TEST ANIMAL ID	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 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	М	М	М	М	М	+	М	+	М	2
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	10
Spleen		+	+	+	+	+	+	+	+	+	+	10
Thymus		+	+	+	+	+	+	+	+	+	+	10
Integumentary System												
Mammary Gland		+	+	+	+	+	+	+	+	+	+	10
Skin		+	+	+	+	+	+	+	+	+	+	10
Musculoskeletal System												
Bone		+	+	+	+	+	+	+	+	+	+	10

M ..Missing tissue

A .. Autolysis precludes evaluation

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

^{+ ..}Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:04:56

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Female 0 PPM	DAY ON TEST ANIMAL ID	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 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 SYSTEMIC LESIONS		+	+	+	+	+	+	+	+	+	+	10
Multiple Organ		+	+	+	+	+	+	+	+	+	+	10

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

^{+ ..}Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:04:56

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Female 3125 PPM	DAY ON TEST ANIMAL ID	0 9 3 0 0 0 7 1	0 9 3 0 0 0 7 2	0 9 3 0 0 0 7 3	0 9 3 0 0 0 7 4	0 9 3 0 0 0 7 5	0 9 3 0 0 0 7 6	0 9 3 0 0 0 7 7	0 9 3 0 0 0 7 8	0 9 3 0 0 0 7	0 9 3 0 0 0 8 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
NONE Integumentary System												

Musculoskeletal System

NONE

NONE

I .. Insufficient tissue

A ..Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

X ..Lesion present

M ..Missing tissue

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

D

Test Compound: Milk thistle extract

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:04:56

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Female 3125 PPM

AY 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
ANIIMAL 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

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

eriment Number: 2000	8-01
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P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:04:56

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	*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

M ..Missing tissue

A ..Autolysis precludes evaluation

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

^{+ ..}Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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: 09:04:56

First Dose M/F: NA / NA

Lab: SRI

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
	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
	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

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:04:56

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	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		•										1017120
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 Integumentary System							+					1
NONE												

Musculoskeletal System

NONE

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

M ..Missing tissue

A ..Autolysis precludes evaluation

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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: 09:04:56

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
	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	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

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

D

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

Time Report Requested: 09:04:56

Date Report Requested: 10/21/2014

First Dose M/F: NA / NA

Lab: SRI

F 344/N	Rat Female
25000	PPM

AY ON TEST	0	0	0	0	0	0	0	n	0	a
AT ON ILST	0	0	0	0	0	0	0	n	0	0
	9	9	9	9	9	9	9	9	9	g
	3	3	3	3	3	3	3	3	3	3
ANIMAL ID	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

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

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

X ..Lesion present

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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: 09:04:56

First Dose M/F: NA / NA

Lab: SRI

F 344/N Rat Female 25000 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
	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

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..} Tissue examined microscopically

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 Time Report Requested: 09:04:56

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	0 9 3 0 0 1 1 8	0 9 3 0 0 1 1	0 9 3 0 0 1 2	*TOTALS
Annientary 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		I	+	+	+	+	+	+	+	+	+	9
Thyroid Gland		+	+	+	+	+	+	+	+	+	+	10

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

X ..Lesion present

I .. Insufficient tissue

M .. Missing tissue

A .. Autolysis precludes evaluation

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

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

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

Time Re

Date Report Requested: 10/21/2014 Time Report Requested: 09:04:56

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	0 9 3 0 0 1	0 9 3 0 0 1	0 9 3 0 0 1	0 9 3 0 0 1	0 9 3 0 0 1	0 9 3 0 0 1	0 9 3 0 0 1	0 9 3 0 0 1	0 0 9 3 0 0	
		1	1 2	1 3	1 4	1 5	1 6	1 7	1 8	9	2 0	*TOTALS
General Body System			•	•	•	•	•	•	•	•		
NONE												
Genital System												
Clitoral Gland		+	+	+	+	+	+	+	+	+	+	10
Ovary		+	+	+	+	+	+	+	+	+	+	10
Uterus		+	+	+	+	+	+	+	+	+	+	10
Hematopoietic System												
Bone Marrow		+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mandibular		М	M	М	М	+	M	М	М	М	M	1
Lymph Node, Mesenteric		+	+	+	+	+	+	+	+	+	+	10
Spleen		+	+	+	+	+	+	+	+	+	+	10
Thymus		+	+	+	+	+	+	+	+	+	+	10
Integumentary System												
Mammary Gland		+	+	+	+	+	+	+	+	+	+	10
Skin		+	+	+	+	+	+	+	+	+	+	10
Musculoskeletal System												

X ..Lesion present

Bone

Brain

Nervous System

I .. Insufficient tissue

M ..Missing tissue

10

10

A .. Autolysis precludes evaluation

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

P17: NEOPLASMS BY INDIVIDUAL ANIMAL (SYSTEMIC LESIONS ABRIDGED)

Test Compound: Milk thistle extract

Species/Strain: Rat/F 344/N

Test Type: 90-DAY

CAS Number: 84604-20-6

Date Report Requested: 10/21/2014 **Time Report Requested:** 09:04:56

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 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
								*	* E1	ND	OF	REPORT **

^{* ..}Total animals with tissue examined microscopically; Total animals with tumor

^{+ ..}Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

A .. Autolysis precludes evaluation