

Experiment Number: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:40

First Dose M/F: NA / NA

Lab: LITRI

C Number:

C62066

Lock Date:

Not Entered.

Cage Range:

All

Date Range:

All

Reasons For Removal:

All

Removal Date Range:

All

Treatment Groups:

All

Study Gender:

Both

PWG Approval Date

NONE

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First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat Male
0.0MG/M3BASIC M

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
	5	5	4	5	5	4	4	5	4	4
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	1	1	3	3	4
	1	3	4	6	7	3	5	2	7	3
	*TOTALS									

Alimentary System

Esophagus	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Cecum	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Colon	+	+	+	+	+	+	+	+	+	+	10
Intestine Large, Rectum	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Granulomatous			3								1 3.0
Parasite Metazoan			X				X				2
Intestine Small, Duodenum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Ileum	+	+	+	+	+	+	+	+	+	+	10
Intestine Small, Jejunum	+	+	+	+	+	+	+	+	+	+	10
Liver	+	+	+	+	+	+	+	+	+	+	10
Bile Duct, Inflammation						1		1		1	3 1.0
Granuloma			1								1 1.0
Necrosis, Multifocal				1	2						2 1.5
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	+	10
Degeneration, Focal					1	1	2	1	1	1	6 1.2

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2) Mild 4) Marked

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Lab: LITRI

F 344/N Rat Male
0.0MG/M3BASIC M

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	
	5	5	4	5	5	4	4	5	4	4	
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	1	1	3	3	4	
	1	3	4	6	7	3	5	2	7	3	*TOTALS

Endocrine System

Adrenal Gland, Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Gland, Medulla	+	+	I	+	+	+	+	+	+	+	9
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	I	+	+	+	+	+	+	+	9
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation					2	1	1	1			4 1.3
Prostate	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node	+	+	+	+	+	+	+	+	+	+	8
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10

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CAS Number: 102-54-5

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Lab: LITRI

F 344/N Rat Male
0.0MG/M3BASIC M

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
	5	5	4	5	5	4	4	5	4	4
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	1	1	3	3	4
	1	3	4	6	7	3	5	2	7	3

*TOTALS

Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10		
Inflammation, Granulomatous			1									1	1.0
Spleen	+	+	+	+	+	+	+	+	+	+	10		
Inflammation, Granulomatous			3									1	3.0
Thymus	+	+	+	+	+	+	+	+	+	+	10		
Integumentary System													
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10		
Skin	+	+	+	+	+	+	+	+	+	+	10		
Musculoskeletal System													
Bone	+	+	+	+	+	+	+	+	+	+	10		
Skeletal Muscle	+	+	+	+	+	+	+	+	+	+	10		
Nervous System													
Brain	+	+	+	+		+	+	+	+	+	9		
Brain, Cerebellum					+						1		
Meninges, Congestion					1							1	1.0
Respiratory System													
Larynx	+	+	+	+	+	+	+	+	+	+	10		
Lung	+	+	+	+	+	+	+	+	+	+	10		
Nose	+	+	+	+	+	+	+	+	+	+	10		
Lamina Propria, Respirat Epith, Inflammation							3		3			2	3.0
Olfactory Epi, Necrosis, Focal				1								1	1.0

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Lab: LITRI

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0.0MG/M3BASIC M

	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		
	5	5	4	5	5	4	4	5	4	4		
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	1	1	3	3	4		
	1	3	4	6	7	3	5	2	7	3	*TOTALS	
Respirat Epith, Hyperplasia						2					1	2.0
Trachea	+	+	+	+	+	+	+	+	+	+	10	
Special Senses System												
NONE												
Urinary System												
Kidney	+	+	+	+	+	+	+	+	+	+	10	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10	
Calculus Gross Observation								X			1	

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First Dose M/F: NA / NA

Lab: LITRI

DAY ON TEST

**F 344/N Rat Male
0.0MG/M3SPECIALM**

ANIMAL ID

*TOTALS

Alimentary System

NONE

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: LITRI

DAY ON TEST

**F 344/N Rat Male
0.0MG/M3SPECIALM**

ANIMAL ID

*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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F 344/N Rat Male
3.0MG/M3BASIC M

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
	4	4	4	5	4	5	4	5	5	5
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	1	1	1	1
	6	8	8	8	9	9	0	0	0	0
	6	4	6	9	2	6	1	4	6	9
	*TOTALS									

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10
Bile Duct, Inflammation										1	1 1.0

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: LITRI

F 344/N Rat Male 3.0MG/M3BASIC M	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	
		4	4	4	5	4	5	4	5	5	5	
	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	1	1	1	1		
	6	8	8	8	9	9	0	0	0	0		
	6	4	6	9	2	6	1	4	6	9		

NONE

Respiratory System

Larynx	+	+	+	+	+	+	+	+	+	+	10	
Pigmentation	2	1	1	2	1	1	1	2	1	2	10	1.4
Lung	+	+	+	+	+	+	+	+	+	+	10	
Bronchiole, Pigmentation	1	1	2	1	1	1	2	1	1	1	10	1.2
Nose	+	+	+	+	+	+	+	+	+	+	10	
Lamina Propria, Respirat Epith, Inflammation										1	1	1.0
Nasopharyn Dct, Pigmentation	1	1	1	2	1	1	1	1	1	1	10	1.1
Olfactory Epi, Hyperplasia	1	1	2	1	1	1	1	1	1	1	10	1.1
Olfactory Epi, Inflammation		1	1	1	1	1	1	1	1	1	9	1.0
Olfactory Epi, Metaplasia	1		1	1	1	1		1	1	1	8	1.0
Olfactory Epi, Pigmentation	2	2	2	2	2	2	2	2	2	2	10	2.0
Respirat Epith, Inflammation				1	1			1	1		4	1.0
Respirat Epith, Pigmentation	2	2	2	2	2	2	2	2	2	2	10	2.0
Squam Epithel, Inflammation				2							1	2.0
Trachea	+	+	+	+	+	+	+	+	+	+	10	
Pigmentation	3	2	2	2	2	2	2	2	2	2	10	2.1

Special Senses System

NONE

Urinary System

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CAS Number: 102-54-5

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First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat Male
3.0MG/M3BASIC M

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
	4	4	4	5	4	5	4	5	5	5
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	1	1	1	1
	6	8	8	8	9	9	0	0	0	0
	6	4	6	9	2	6	1	4	6	9
	*TOTALS									

NONE

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DAY ON TEST

**F 344/N Rat Male
3.0MG/M3SPECIALM**

ANIMAL ID

*TOTALS

Alimentary System

NONE

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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F 344/N Rat Male
3.0MG/M3SPECIALM

ANIMAL ID

*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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Lab: LITRI

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10.MG/M3BASIC M

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	
	4	4	4	5	5	4	5	5	4	5	
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	
	3	4	4	4	5	5	6	6	7	7	
	7	1	3	5	6	9	1	8	0	2	*TOTALS

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10
Necrosis, Multifocal					1						1 1.0
Pigmentation	1			1	1			1	1	1	6 1.0

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

NONE

Integumentary System

NONE

Musculoskeletal System

NONE

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10.MG/M3BASIC M

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

*TOTALS

Nervous System

NONE

Respiratory System

Larynx	+	+	+	+	+	+	+	+	+	+	10	
Pigmentation	2	3	2	2	3	3		2	2	3	9	2.4
Lung	+	+	+	+	+	+	+	+	+	+	10	
Bronchiole, Pigmentation	2	2	2	2	2	1	2	2	2	2	10	1.9
Nose	+	+	+	+	+	+	+	+	+	+	10	
Lamina Propria, Respirat Epith, Inflammation				1							1	1.0
Nasopharyn Dct, Pigmentation	1	2	2	1	2	2	1	1	2	1	10	1.5
Olfactory Epi, Hyperplasia	2	2	1	1	2	1	1	1	1	2	10	1.4
Olfactory Epi, Inflammation	2	2	2	2	3	3	2	2	2	2	10	2.2
Olfactory Epi, Metaplasia	1	1	1	2	1	2	1	2		1	9	1.3
Olfactory Epi, Pigmentation	3	3	3	3	3	3	3	3	3	3	10	3.0
Respirat Epith, Pigmentation	2	2	2	2	2	2	2	2	2	2	10	2.0
Trachea	+	+	+	+	+	+	+	+	+	+	10	
Pigmentation	2	2	3	3	3	3	3	3	2	3	10	2.7

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: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:41

First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat Male
10.MG/M3BASIC M

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
	4	4	4	5	5	4	5	5	4	5
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
	3	4	4	4	5	5	6	6	7	7
	7	1	3	5	6	9	1	8	0	2
	*TOTALS									

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: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:41

First Dose M/F: NA / NA

Lab: LITRI

DAY ON TEST

F 344/N Rat Male

10.MG/M3SPECIALM

ANIMAL ID

*TOTALS

Alimentary System

NONE

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

* ..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: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:41

First Dose M/F: NA / NA

Lab: LITRI

DAY ON TEST

F 344/N Rat Male

10.MG/M3SPECIALM

ANIMAL ID

*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

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: 05218-03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/22/2014

Test Type: 90-DAY

Test Compound: Ferrocene

Time Report Requested: 06:51:41

Species/Strain: Rat/F 344/N

CAS Number: 102-54-5

First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat Male
30.MG/M3BASIC M

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	
	4	5	4	5	5	4	4	5	4	5	
ANIMAL ID	0	0	0	0	0	0	0	0	0	0	
	0	0	0	0	0	0	0	0	0	0	
	1	2	2	2	2	2	2	2	2	2	
	9	0	0	1	2	2	2	3	3	3	
	9	1	8	6	0	1	2	0	5	9	*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	
Bile Duct, Inflammation						1						1 1.0
Pigmentation	1	1	1	1	1	1	1	1	1	1	10	1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10	
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10	
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10	
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10	

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	+	10	
Degeneration, Focal	1	1	1	1	1	1	1	1	2	1	10	1.1

Endocrine System

Adrenal Gland, Cortex	+	+	+	+	+	+	+	+	+	+	10	
Adrenal Gland, 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

Experiment Number: 05218-03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/22/2014

Test Type: 90-DAY

Test Compound: Ferrocene

Time Report Requested: 06:51:41

Species/Strain: Rat/F 344/N

CAS Number: 102-54-5

First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat Male
30.MG/M3BASIC M

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
	4	5	4	5	5	4	4	5	4	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	2	2	2	2	2	2	2	2	2
	9	0	0	1	2	2	2	3	3	3
	9	1	8	6	2	1	2	0	5	9
	*TOTALS									

Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10
Parathyroid Gland	+	+	M	+	+	+	+	+	+	+	9
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

General Body System

NONE

Genital System

Epididymis	+	+	+	+	+	+	+	+	+	+	10
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation	1	2	2	1				1	1		6 1.3
Prostate	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10

Hematopoietic System

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

Integumentary System

* ..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: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:41

First Dose M/F: NA / NA

Lab: LITRI

**F 344/N Rat Male
30.MG/M3BASIC M**

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
	4	5	4	5	5	4	4	5	4	5
ANIMAL ID	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	0	0	0	0	0
	1	2	2	2	2	2	2	2	2	2
	9	0	0	1	2	2	2	3	3	3
	9	1	8	6	0	1	2	0	5	9
	*TOTALS									

Integumentary System

Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10

Musculoskeletal System

Bone	+	+	+	+	+	+	+	+	+	+	10
Skeletal Muscle	+	+	+	+	+	+	+	+	+	+	10

Nervous System

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

Respiratory System

Larynx	+	+	+	+	+	+	+	+	+	+	10	
Pigmentation	3	3	3	3	3	3	3	2	2	2	10	2.7
Lung	+	+	+	+	+	+	+	+	+	+	10	
Bronchiole, Pigmentation	2	2	2	2	2	2	2	2	2	2	10	2.0
Nose	+	+	+	+	+	+	+	+	+	+	10	
Lamina Propria, Respirat Epith, Inflammation	2										1	2.0
Nasopharyn Dct, Pigmentation	2	2	1	2	2	2	2	2	2	2	10	1.9
Olfactory Epi, Hyperplasia	2	2	2	2	2	2	3	2	2	3	10	2.2
Olfactory Epi, Inflammation	3	3	4	3	3	3	3	3	3	3	10	3.1
Olfactory Epi, Metaplasia	2	1	2	1	1	1		1	1	2	9	1.3
Olfactory Epi, Pigmentation	3	3	3	3	3	3	3	3	3	3	10	3.0
Respirat Epith, Hyperplasia					1						1	1.0

* ..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: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:42

First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat Male
30.MG/M3BASIC M

	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	
	1	2	2	2	2	2	2	2	2	2		
Respirat Epith, Inflammation	2	1							1	1	4	1.3
Respirat Epith, Pigmentation	2	2	2	2	2	2	2	2	2	2	10	2.0
Trachea	+	+	+	+	+	+	+	+	+	+	10	
Pigmentation	3	2	3	3	3	3	2	3	3	3	10	2.8
Special Senses System												
NONE												
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: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:42

First Dose M/F: NA / NA

Lab: LITRI

DAY ON TEST

**F 344/N Rat Male
30.MG/M3SPECIALM**

ANIMAL ID

*TOTALS

Alimentary System

NONE

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

* ..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: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:42

First Dose M/F: NA / NA

Lab: LITRI

DAY ON TEST

F 344/N Rat Male

30.MG/M3SPECIALM

ANIMAL ID

*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

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

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BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05218-03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/22/2014

Test Type: 90-DAY

Test Compound: Ferrocene

Time Report Requested: 06:51:42

Species/Strain: Rat/F 344/N

CAS Number: 102-54-5

First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat Female
0.0MG/M3BASIC F

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
	5	4	5	4	5	4	5	5	4	4
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	5	5	5	5	5	6	6	6
	7	9	3	5	7	8	9	0	1	2
	*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
Bile Duct, Inflammation			1								1 1.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	+	10
Degeneration, Focal	1		1		1			1	1		5 1.0

Endocrine System

Adrenal Gland, Cortex	+	+	+	+	+	+	+	+	+	+	10
Adrenal Gland, Medulla	+	+	+	+	+	+	+	+	+	+	10
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	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

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BLANK ..Not examined microscopically

1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:42

First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat Female
0.0MG/M3BASIC F

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
	5	4	5	4	5	4	5	5	4	4
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	5	5	5	5	5	6	6	6
	7	9	3	5	7	8	9	0	1	2
	*TOTALS									

Parathyroid Gland	+	+	+	I	+	M	I	+	+	+	7
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10

General Body System

NONE

Genital System

Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation	1				1			1		1	4 1.0
Ovary	+	+	+	+	+	+	+	+	+	+	10
Uterus	+	+	+	+	+	+	+	+	+	+	10
Vagina	+	+	+	+	+	+	+	+	+	+	10

Hematopoietic System

Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia, Histiocytic, Multifocal				3							1 3.0
Lymph Node	+	+	+	+	+	+	+	+	+	+	9
Lymph Node, Mandibular	+	+	+	I	+	+	+	+	+	+	9
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10

Integumentary System

Mammary Gland	+	+	+	+	+	+	+	+	+	+	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: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:42

First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat Female
0.0MG/M3BASIC F

DAY ON TEST	0	0	0	0	0	0	0	0	0	0	*TOTALS
	0	0	0	0	0	0	0	0	0	0	
ANIMAL ID	9	9	9	9	9	9	9	9	9	9	
	5	4	5	4	5	4	5	5	4	4	
	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	5	5	5	5	5	6	6	6	
	7	9	3	5	7	8	9	0	1	2	
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
Musculoskeletal System											
Bone	+	+	+	+	+	+	+	+	+	+	10
Skeletal Muscle	+	+	+	+	+	+	+	+	+	+	10
Nervous System											
Brain	+	+	+	+	+	+	+	+	+	+	10
Respiratory System											
Larynx	+	+	+	I	+	+	+	+	+	+	9
Lung	+	+	+	+	+	+	+	+	+	+	10
Nose	+	+	+	+	+	+	+	+	+	+	10
Lamina Propria, Respirat Epith, Inflammation				1	3	3		1		2	6 1.8
Olfactory Epi, Necrosis, Focal	1	1	1							3	4 1.5
Squam Epithel, Inflammation				1							1 1.0
Trachea	+	+	+	+	+	+	+	+	+	+	10
Special Senses System											
NONE											
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: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:42

First Dose M/F: NA / NA

Lab: LITRI

DAY ON TEST

**F 344/N Rat Female
0.0MG/M3SPECIALF**

ANIMAL ID

*TOTALS

Alimentary System

NONE

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

* ..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: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:42

First Dose M/F: NA / NA

Lab: LITRI

DAY ON TEST

**F 344/N Rat Female
0.0MG/M3SPECIALF**

ANIMAL ID

*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

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: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:42

First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat Female
3.0MG/M3BASIC F

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	
	4	5	4	5	4	5	4	5	4	5	
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	2	2	2	2	3	
	2	6	7	8	9	2	3	5	8	0	*TOTALS

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10
Pigmentation		1	1	1	1	1	1	1	1	1	9 1.0

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Lymph Node, Mandibular						+					1
Congestion						1					1 1.0

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

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Experiment Number: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:42

First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat Female
3.0MG/M3BASIC F

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	
	4	5	4	5	4	5	4	5	4	5	
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	2	2	2	2	3	
	2	6	7	8	9	2	3	5	8	0	*TOTALS

Nervous System

NONE

Respiratory System

Larynx	+	+	+	+	+	+	+	+	+	+	10	
Pigmentation	1	2	2	1	2	2	1	2	2	2	10	1.7
Lung	+	+	+	+	+	+	+	+	+	+	10	
Bronchiole, Pigmentation	1	2	1	1	1	1	1	1	1	1	10	1.1
Nose	+	+	+	+	+	+	+	+	+	+	10	
Lamina Propria, Respirat Epith, Inflammation		2	1					2		1	4	1.5
Nasopharyn Dct, Pigmentation		1		1	1	1	1		1		6	1.0
Olfactory Epi, Hyperplasia	1	1	1	1	1	1	2	1	1	1	10	1.1
Olfactory Epi, Inflammation	1	1	1	1	2	1	1	1	1	1	10	1.1
Olfactory Epi, Metaplasia	1	2		2	1	1	1		2	1	8	1.4
Olfactory Epi, Pigmentation	2	2	2	2	2	2	2	2	2	2	10	2.0
Respirat Epith, Pigmentation	2	2	2	2	2	2	2	2	2	2	10	2.0
Squam Epithel, Inflammation	1										1	1.0
Trachea	+	+	+	+	+	+	+	+	+	+	10	
Pigmentation	2	2	2	2	2	2	2	2	2	2	10	2.0

Special Senses System

NONE

Urinary System

* ..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: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:42

First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat Female
3.0MG/M3BASIC F

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	
	4	5	4	5	4	5	4	5	4	5	
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	2	2	2	2	3	
	2	6	7	8	9	2	3	5	8	0	*TOTALS

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

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2) Mild 4) Marked

Experiment Number: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:42

First Dose M/F: NA / NA

Lab: LITRI

DAY ON TEST

**F 344/N Rat Female
3.0MG/M3SPECIALF**

ANIMAL ID

*TOTALS

Alimentary System

NONE

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

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:42

First Dose M/F: NA / NA

Lab: LITRI

DAY ON TEST

**F 344/N Rat Female
3.0MG/M3SPECIALF**

ANIMAL ID

*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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2) Mild 4) Marked

Experiment Number: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:42

First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat Female
10.MG/M3BASIC F

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	
	5	5	4	4	5	5	4	4	5	4	
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	
	7	7	8	8	8	9	9	9	9	9	
	7	8	0	1	6	0	2	3	4	5	*TOTALS

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10	
Bile Duct, Inflammation			1								1	1.0
Pigmentation	1	1	1	1	1	1	1	1	1	1	10	1.0

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Lymph Node, Mandibular				+							1	
Congestion				1							1	1.0

Integumentary System

NONE

Musculoskeletal System

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

+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

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1) Minimal 3) Moderate

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Experiment Number: 05218-03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/22/2014

Test Type: 90-DAY

Test Compound: Ferrocene

Time Report Requested: 06:51:42

Species/Strain: Rat/F 344/N

CAS Number: 102-54-5

First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat Female 10.MG/M3BASIC F	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	
		5	5	4	4	5	5	4	4	5	4	
	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	
		7	7	8	8	8	9	9	9	9	9	
		7	8	0	1	6	0	2	3	4	5	

NONE
Nervous System

NONE
Respiratory System

Larynx	+	+	+	+	+	+	+	+	+	+	10	
Pigmentation	2	3		2	2	1	3	2	3		8	2.3
Lung	+	+	+	+	+	+	+	+	+	+	10	
Bronchiole, Pigmentation	1	1	2	2	2	2	1	2	2	1	10	1.6
Nose	+	+	+	+	+	+	+	+	+	+	10	
Lamina Propria, Respirat Epith, Inflammation						1	2	1			3	1.3
Nasopharyn Dct, Pigmentation	2	1	1	1	1	1	1	1	1	1	10	1.1
Olfactory Epi, Hyperplasia	2	1	2	2	2	1	2	2	1	2	10	1.7
Olfactory Epi, Inflammation	2	2	2	2	2	2	2	3	3	2	10	2.2
Olfactory Epi, Metaplasia	2	1	1	2	1		1	1	1		8	1.3
Olfactory Epi, Pigmentation	3	3	3	3	3	3	3	3	3	3	10	3.0
Respirat Epith, Inflammation				1							1	1.0
Respirat Epith, Pigmentation	2	2	2	2	2	2	2	2	2	2	10	2.0
Squam Epithel, Inflammation									1		1	1.0
Trachea	+	+	+	+	+	+	+	+	+	+	10	
Pigmentation	2	3	3	3	2	3	3	3	2	2	10	2.6

Special Senses System

* ..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: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:42

First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat Female
10.MG/M3BASIC F

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	
	5	5	4	4	5	5	4	4	5	4	
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	
	7	7	8	8	8	9	9	9	9	9	
	7	8	0	1	6	0	2	3	4	5	*TOTALS

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: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:42

First Dose M/F: NA / NA

Lab: LITRI

DAY ON TEST

**F 344/N Rat Female
10.MG/M3SPECIALF**

ANIMAL ID

*TOTALS

Alimentary System

NONE

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

* ..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

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2) Mild 4) Marked

Experiment Number: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:42

First Dose M/F: NA / NA

Lab: LITRI

DAY ON TEST

**F 344/N Rat Female
10.MG/M3SPECIALF**

ANIMAL ID

*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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Experiment Number: 05218-03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/22/2014

Test Type: 90-DAY

Test Compound: Ferrocene

Time Report Requested: 06:51:42

Species/Strain: Rat/F 344/N

CAS Number: 102-54-5

First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat Female
30.MG/M3BASIC F

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

*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
Bile Duct, Inflammation									1		1 1.0
Necrosis, Multifocal						1					1 1.0
Pigmentation	1	1	2	2	1	1	1	2	2	1	10 1.4
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	+	10
Degeneration, Focal	1	1	1	1		1				1	6 1.0

Endocrine System

Adrenal Gland, 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

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05218-03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/22/2014

Test Type: 90-DAY

Test Compound: Ferrocene

Time Report Requested: 06:51:42

Species/Strain: Rat/F 344/N

CAS Number: 102-54-5

First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat Female 30.MG/M3BASIC F	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		
	9	9	9	9	9	9	9	9	9	9		
	5	4	4	5	4	5	4	5	5	4		
	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		
	4	4	4	4	4	5	5	5	5	5		
	3	4	7	8	9	1	2	5	5	7		
Adrenal Gland, Medulla	+	+	+	+	+	+	+	+	+	+	10	
Hyperplasia	1										1	1.0
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	10	
Parathyroid Gland	+	+	+	M	+	+	+	+	+	+	9	
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10	
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10	
General Body System												
NONE												
Genital System												
Clitoral Gland	+	+	+	+	+	+	+	+	+	+	10	
Inflammation	1			2		1		1	1	1	6	1.2
Ovary	+	+	+	+	+	+	+	+	+	+	10	
Uterus	+	+	+	+	+	+	+	+	+	+	10	
Vagina	+	+	+	+	+	+	+	+	+	+	10	
Hematopoietic System												
Bone Marrow	+	+	+	+	+	+	M	+	+	+	9	
Hyperplasia, Histiocytic, Multifocal	3										1	3.0
Lymph Node	+	+	+	+	+	+	+	+	+	+	8	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10	
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10	
Hyperplasia								2			1	2.0

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+ ..Tissue examined microscopically

X ..Lesion present

I ..Insufficient tissue

M ..Missing tissue

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 05218-03

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Date Report Requested: 10/22/2014

Test Type: 90-DAY

Test Compound: Ferrocene

Time Report Requested: 06:51:42

Species/Strain: Rat/F 344/N

CAS Number: 102-54-5

First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat Female 30.MG/M3BASIC F	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	
	9	9	9	9	9	9	9	9	9	9	
	5	4	4	5	4	5	4	5	5	4	
	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	
	4	4	4	4	4	5	5	5	5	5	
	3	4	7	8	9	0	1	2	5	7	
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
Integumentary System											
Mammary Gland	+	+	+	+	+	+	+	+	+	+	10
Skin	+	+	+	+	+	+	+	+	+	+	10
Musculoskeletal System											
Bone	+	+	+	+	+	+	M	+	+	+	9
Skeletal Muscle	+	+	+	+	+	+	+	+	+	+	10
Nervous System											
Brain	+	+	+	+	+	+	+	+	+	+	10
Respiratory System											
Larynx	+	+	+	+	+	+	+	+	+	+	10
Pigmentation	3	2			3	1	2	1	2	2	8 2.0
Lung	+	+	+	+	+	+	+	+	+	+	10
Bronchiole, Pigmentation	2	2	2	2	2	2	2	2	2	2	10 2.0
Interstitialium, Inflammation		1									1 1.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Lamina Propria, Respirat Epith, Inflammation	3	1			3	2	2	3			6 2.3
Nasopharyn Dct, Pigmentation	1	2	2	2	2	2	2	2	2	2	10 1.9
Olfactory Epi, Hyperplasia	2	3	2	2	1	2	2	2	2	2	10 2.0
Olfactory Epi, Inflammation	3	4	3	3	4	3	3	3	3	3	10 3.2

* ..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: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:43

First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat Female
30.MG/M3BASIC F

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

*TOTALS

Olfactory Epi, Metaplasia	1	2	2	1	2		1	2	2	2	9	1.7
Olfactory Epi, Pigmentation	3	3	3	3	3	3	3	3	3	3	10	3.0
Respirat Epith, Hyperplasia									1		1	1.0
Respirat Epith, Inflammation						2	1		1		3	1.3
Respirat Epith, Pigmentation	2	2	2	2	2	2	2	2	2	2	10	2.0
Squam Epithel, Inflammation	1		1								2	1.0
Trachea	+	+	+	+	+	+	+	+	+	+	10	
Pigmentation	3	2	3	3	3	3	3	2	3	2	10	2.7

Special Senses System

NONE

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10	
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10	

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First Dose M/F: NA / NA

Lab: LITRI

DAY ON TEST

**F 344/N Rat Female
30.MG/M3SPECIALF**

ANIMAL ID

*TOTALS

Alimentary System

NONE

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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Test Type: 90-DAY

Species/Strain: Rat/F 344/N

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:51:43

First Dose M/F: NA / NA

Lab: LITRI

DAY ON TEST

F 344/N Rat Female
30.MG/M3SPECIALF

ANIMAL ID

*TOTALS

Respiratory System

NONE

Special Senses System

NONE

Urinary System

NONE

**** END OF REPORT ****

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