

Experiment Number: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH
AVERAGE SEVERITY GRADES[b]**

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:48:13

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	0.0MG/M3SPECIALM	3.0MG/M3BASIC M	3.0MG/M3SPECIALM	10.MG/M3BASIC M	10.MG/M3SPECIALM
Disposition Summary						
Animals Initially In Study	10	35	10	35	10	35
Scheduled Sacrifice	1	20		19		20
Early Deaths						
Accidentally Killed				1		1
Natural Death						
Survivors						
Terminal Sacrifice	9	15	10	15	10	14
Animals Examined Microscopically	10		10		10	
ALIMENTARY SYSTEM						
Esophagus	(10)	(0)	(0)	(0)	(0)	(0)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(0)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(0)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(0)
Inflammation, Granulomatous	1 [3.0]					
Parasite Metazoan	2					
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(0)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(0)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(0)
Liver	(10)	(0)	(10)	(0)	(10)	(0)
Bile Duct, Inflammation	3 [1.0]		1 [1.0]			
Granuloma	1 [1.0]					
Necrosis, Multifocal	2 [1.5]				1 [1.0]	
Pigmentation					6 [1.0]	
Pancreas	(10)	(0)	(0)	(0)	(0)	(0)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(0)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(0)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(0)

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

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Lab: LITRI

F 344/N Rat MALE	0.0MG/M3BASIC M	0.0MG/M3SPECIALM	3.0MG/M3BASIC M	3.0MG/M3SPECIALM	10.MG/M3BASIC M	10.MG/M3SPECIALM
CARDIOVASCULAR SYSTEM						
Heart	(10)	(0)	(0)	(0)	(0)	(0)
Degeneration, Focal	6 [1.2]					
ENDOCRINE SYSTEM						
Adrenal Gland, Cortex	(10)	(0)	(0)	(0)	(0)	(0)
Adrenal Gland, Medulla	(9)	(0)	(0)	(0)	(0)	(0)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(0)
Parathyroid Gland	(9)	(0)	(0)	(0)	(0)	(0)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(0)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(0)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Epididymis	(10)	(0)	(0)	(0)	(0)	(0)
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(0)
Inflammation	4 [1.3]					
Prostate	(10)	(0)	(0)	(0)	(0)	(0)
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(0)
Testes	(10)	(0)	(0)	(0)	(0)	(0)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(0)
Lymph Node	(10)	(0)	(0)	(0)	(0)	(0)
Lymph Node, Mandibular	(10)	(0)	(0)	(0)	(0)	(0)
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(0)
Inflammation, Granulomatous	1 [1.0]					
Spleen	(10)	(0)	(0)	(0)	(0)	(0)
Inflammation, Granulomatous	1 [3.0]					

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Lab: LITRI

F 344/N Rat MALE	0.0MG/M3BASIC M	0.0MG/M3SPECIALM	3.0MG/M3BASIC M	3.0MG/M3SPECIALM	10.MG/M3BASIC M	10.MG/M3SPECIALM
Thymus	(10)	(0)	(0)	(0)	(0)	(0)
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(0)
Skin	(10)	(0)	(0)	(0)	(0)	(0)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(0)
Skeletal Muscle	(10)	(0)	(0)	(0)	(0)	(0)
NERVOUS SYSTEM						
Brain	(9)	(0)	(0)	(0)	(0)	(0)
Brain, Cerebellum	(1)	(0)	(0)	(0)	(0)	(0)
Meninges, Congestion	1 [1.0]					
RESPIRATORY SYSTEM						
Larynx	(10)	(0)	(10)	(0)	(10)	(0)
Pigmentation			10 [1.4]		9 [2.4]	
Lung	(10)	(0)	(10)	(0)	(10)	(0)
Bronchiole, Pigmentation			10 [1.2]		10 [1.9]	
Nose	(10)	(0)	(10)	(0)	(10)	(0)
Lamina Propria, Respirat Epith, Inflammation	2 [3.0]		1 [1.0]		1 [1.0]	
Nasopharyn Dct, Pigmentation			10 [1.1]		10 [1.5]	
Olfactory Epi, Hyperplasia			10 [1.1]		10 [1.4]	
Olfactory Epi, Inflammation			9 [1.0]		10 [2.2]	
Olfactory Epi, Metaplasia			8 [1.0]		9 [1.3]	
Olfactory Epi, Necrosis, Focal	1 [1.0]					
Olfactory Epi, Pigmentation			10 [2.0]		10 [3.0]	
Respirat Epith, Hyperplasia	1 [2.0]					
Respirat Epith, Inflammation			4 [1.0]			
Respirat Epith, Pigmentation			10 [2.0]		10 [2.0]	

a - Number of animals examined microscopically at site and number of animals with lesion

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Lab: LITRI

F 344/N Rat MALE	0.0MG/M3BASIC M	0.0MG/M3SPECIALM	3.0MG/M3BASIC M	3.0MG/M3SPECIALM	10.MG/M3BASIC M	10.MG/M3SPECIALM
Squam Epithel, Inflammation			1 [2.0]			
Trachea	(10)	(0)	(10)	(0)	(10)	(0)
Pigmentation			10 [2.1]		10 [2.7]	
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(0)
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(0)
Calculus Gross Observation	1					

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First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat MALE	30.MG/M3BASIC M	30.MG/M3SPECIALM
Disposition Summary		
Animals Initially In Study	10	35
Scheduled Sacrifice		18
Early Deaths		
Accidentally Killed		1
Natural Death		1
Survivors		
Terminal Sacrifice	10	15
Animals Examined Microscopically	10	
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ALIMENTARY SYSTEM		
Esophagus	(10)	(0)
Intestine Large, Cecum	(10)	(0)
Intestine Large, Colon	(10)	(0)
Intestine Large, Rectum	(10)	(0)
Inflammation, Granulomatous		
Parasite Metazoan		
Intestine Small, Duodenum	(10)	(0)
Intestine Small, Ileum	(10)	(0)
Intestine Small, Jejunum	(10)	(0)
Liver	(10)	(0)
Bile Duct, Inflammation	1 [1.0]	
Granuloma		
Necrosis, Multifocal		
Pigmentation	10 [1.0]	
Pancreas	(10)	(0)
Salivary Glands	(10)	(0)
Stomach, Forestomach	(10)	(0)
Stomach, Glandular	(10)	(0)

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Lab: LITRI

F 344/N Rat MALE	30.MG/M3BASIC M	30.MG/M3SPECIALM
CARDIOVASCULAR SYSTEM		
Heart	(10)	(0)
Degeneration, Focal	10 [1.1]	
ENDOCRINE SYSTEM		
Adrenal Gland, Cortex	(10)	(0)
Adrenal Gland, Medulla	(10)	(0)
Islets, Pancreatic	(10)	(0)
Parathyroid Gland	(9)	(0)
Pituitary Gland	(10)	(0)
Thyroid Gland	(10)	(0)
GENERAL BODY SYSTEM		
None		
GENITAL SYSTEM		
Epididymis	(10)	(0)
Preputial Gland	(10)	(0)
Inflammation	6 [1.3]	
Prostate	(10)	(0)
Seminal Vesicle	(10)	(0)
Testes	(10)	(0)
HEMATOPOIETIC SYSTEM		
Bone Marrow	(10)	(0)
Lymph Node	(10)	(0)
Lymph Node, Mandibular	(10)	(0)
Lymph Node, Mesenteric	(10)	(0)
Inflammation, Granulomatous		
Spleen	(10)	(0)
Inflammation, Granulomatous		

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First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat MALE	30.MG/M3BASIC M	30.MG/M3SPECIALM
Thymus	(10)	(0)
INTEGUMENTARY SYSTEM		
Mammary Gland	(10)	(0)
Skin	(10)	(0)
MUSCULOSKELETAL SYSTEM		
Bone	(10)	(0)
Skeletal Muscle	(10)	(0)
NERVOUS SYSTEM		
Brain	(10)	(0)
Brain, Cerebellum	(0)	(0)
Meninges, Congestion		
RESPIRATORY SYSTEM		
Larynx	(10)	(0)
Pigmentation	10 [2.7]	
Lung	(10)	(0)
Bronchiole, Pigmentation	10 [2.0]	
Nose	(10)	(0)
Lamina Propria, Respirat Epith, Inflammation	1 [2.0]	
Nasopharyn Dct, Pigmentation	10 [1.9]	
Olfactory Epi, Hyperplasia	10 [2.2]	
Olfactory Epi, Inflammation	10 [3.1]	
Olfactory Epi, Metaplasia	9 [1.3]	
Olfactory Epi, Necrosis, Focal		
Olfactory Epi, Pigmentation	10 [3.0]	
Respirat Epith, Hyperplasia	1 [1.0]	
Respirat Epith, Inflammation	4 [1.3]	
Respirat Epith, Pigmentation	10 [2.0]	

a - Number of animals examined microscopically at site and number of animals with lesion

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First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat MALE	30.MG/M3BASIC M	30.MG/M3SPECIALM
Squam Epithel, Inflammation		
Trachea	(10)	(0)
Pigmentation	10 [2.8]	
<hr/>		
SPECIAL SENSES SYSTEM		
None		
<hr/>		
URINARY SYSTEM		
Kidney	(10)	(0)
Urinary Bladder	(10)	(0)
Calculus Gross Observation		

END OF MALE DATA

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

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Lab: LITRI

F 344/N Rat FEMALE	0.0MG/M3BASIC F	0.0MG/M3SPECIALF	3.0MG/M3BASIC F	3.0MG/M3SPECIALF	10.MG/M3BASIC F	10.MG/M3SPECIALF
Disposition Summary						
Animals Initially In Study	10	10	10	10	10	10
Scheduled Sacrifice		9		10		10
Early Deaths						
Accidentally Killed		1				
Survivors						
Terminal Sacrifice	10		10		10	
Animals Examined Microscopically	10		10		10	
ALIMENTARY SYSTEM						
Esophagus	(10)	(0)	(0)	(0)	(0)	(0)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(0)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(0)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(0)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(0)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(0)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(0)
Liver	(10)	(0)	(10)	(0)	(10)	(0)
Bile Duct, Inflammation	1 [1.0]				1 [1.0]	
Necrosis, Multifocal						
Pigmentation			9 [1.0]		10 [1.0]	
Pancreas	(10)	(0)	(0)	(0)	(0)	(0)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(0)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(0)
Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(0)
CARDIOVASCULAR SYSTEM						
Heart	(10)	(0)	(0)	(0)	(0)	(0)
Degeneration, Focal	5 [1.0]					

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F 344/N Rat FEMALE	0.0MG/M3BASIC F	0.0MG/M3SPECIALF	3.0MG/M3BASIC F	3.0MG/M3SPECIALF	10.MG/M3BASIC F	10.MG/M3SPECIALF
ENDOCRINE SYSTEM						
Adrenal Gland, Cortex	(10)	(0)	(0)	(0)	(0)	(0)
Adrenal Gland, Medulla	(10)	(0)	(0)	(0)	(0)	(0)
Hyperplasia						
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(0)
Parathyroid Gland	(7)	(0)	(0)	(0)	(0)	(0)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(0)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(0)
GENERAL BODY SYSTEM						
None						
GENITAL SYSTEM						
Clitoral Gland	(10)	(0)	(0)	(0)	(0)	(0)
Inflammation	4 [1.0]					
Ovary	(10)	(0)	(0)	(0)	(0)	(0)
Uterus	(10)	(0)	(0)	(0)	(0)	(0)
Vagina	(10)	(0)	(0)	(0)	(0)	(0)
HEMATOPOIETIC SYSTEM						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(0)
Hyperplasia, Histiocytic, Multifocal	1 [3.0]					
Lymph Node	(10)	(0)	(0)	(0)	(0)	(0)
Lymph Node, Mandibular	(9)	(0)	(1)	(0)	(1)	(0)
Congestion			1 [1.0]		1 [1.0]	
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(0)
Hyperplasia						
Spleen	(10)	(0)	(0)	(0)	(0)	(0)
Thymus	(10)	(0)	(0)	(0)	(0)	(0)
INTEGUMENTARY SYSTEM						

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Mammary Gland	(10)	(0)	(0)	(0)	(0)	(0)
Skin	(10)	(0)	(0)	(0)	(0)	(0)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(0)
Skeletal Muscle	(10)	(0)	(0)	(0)	(0)	(0)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(0)
RESPIRATORY SYSTEM						
Larynx	(9)	(0)	(10)	(0)	(10)	(0)
Pigmentation			10 [1.7]		8 [2.3]	
Lung	(10)	(0)	(10)	(0)	(10)	(0)
Bronchiole, Pigmentation			10 [1.1]		10 [1.6]	
Interstitial, Inflammation						
Nose	(10)	(0)	(10)	(0)	(10)	(0)
Lamina Propria, Respirat Epith, Inflammation	6 [1.8]		4 [1.5]		3 [1.3]	
Nasopharyn Dct, Pigmentation			6 [1.0]		10 [1.1]	
Olfactory Epi, Hyperplasia			10 [1.1]		10 [1.7]	
Olfactory Epi, Inflammation			10 [1.1]		10 [2.2]	
Olfactory Epi, Metaplasia			8 [1.4]		8 [1.3]	
Olfactory Epi, Necrosis, Focal	4 [1.5]					
Olfactory Epi, Pigmentation			10 [2.0]		10 [3.0]	
Respirat Epith, Hyperplasia						
Respirat Epith, Inflammation					1 [1.0]	
Respirat Epith, Pigmentation			10 [2.0]		10 [2.0]	
Squam Epithel, Inflammation	1 [1.0]		1 [1.0]		1 [1.0]	
Trachea	(10)	(0)	(10)	(0)	(10)	(0)
Pigmentation			10 [2.0]		10 [2.6]	

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First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat FEMALE	0.0MG/M3BASIC F	0.0MG/M3SPECIALF	3.0MG/M3BASIC F	3.0MG/M3SPECIALF	10.MG/M3BASIC F	10.MG/M3SPECIALF
<hr/>						
SPECIAL SENSES SYSTEM						
None						
<hr/>						
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(0)
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(0)

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)

Experiment Number: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH
AVERAGE SEVERITY GRADES[b]**

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:48:14

First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat FEMALE	30.MG/M3BASIC F	30.MG/M3SPECIALF
Disposition Summary		
Animals Initially In Study	10	10
Scheduled Sacrifice		10
Early Deaths		
Accidentally Killed		
Survivors		
Terminal Sacrifice	10	
Animals Examined Microscopically	10	

ALIMENTARY SYSTEM

Esophagus	(10)	(0)
Intestine Large, Cecum	(10)	(0)
Intestine Large, Colon	(10)	(0)
Intestine Large, Rectum	(10)	(0)
Intestine Small, Duodenum	(10)	(0)
Intestine Small, Ileum	(10)	(0)
Intestine Small, Jejunum	(10)	(0)
Liver	(10)	(0)
Bile Duct, Inflammation	1 [1.0]	
Necrosis, Multifocal	1 [1.0]	
Pigmentation	10 [1.4]	
Pancreas	(10)	(0)
Salivary Glands	(10)	(0)
Stomach, Forestomach	(10)	(0)
Stomach, Glandular	(10)	(0)

CARDIOVASCULAR SYSTEM

Heart	(10)	(0)
Degeneration, Focal	6 [1.0]	

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Experiment Number: 05218-03

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Species/Strain: Rat/F 344/N

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH
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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 FEMALE	30.MG/M3BASIC F	30.MG/M3SPECIALF
ENDOCRINE SYSTEM		
Adrenal Gland, Cortex	(10)	(0)
Adrenal Gland, Medulla	(10)	(0)
Hyperplasia	1 [1.0]	
Islets, Pancreatic	(10)	(0)
Parathyroid Gland	(9)	(0)
Pituitary Gland	(10)	(0)
Thyroid Gland	(10)	(0)
GENERAL BODY SYSTEM		
None		
GENITAL SYSTEM		
Clitoral Gland	(10)	(0)
Inflammation	6 [1.2]	
Ovary	(10)	(0)
Uterus	(10)	(0)
Vagina	(10)	(0)
HEMATOPOIETIC SYSTEM		
Bone Marrow	(9)	(0)
Hyperplasia, Histiocytic, Multifocal	1 [3.0]	
Lymph Node	(10)	(0)
Lymph Node, Mandibular	(10)	(0)
Congestion		
Lymph Node, Mesenteric	(10)	(0)
Hyperplasia	1 [2.0]	
Spleen	(10)	(0)
Thymus	(10)	(0)
INTEGUMENTARY SYSTEM		

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Experiment Number: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

**P18: INCIDENCE RATES OF NON-NEOPLASTIC LESIONS BY ANATOMIC SITE (a) WITH
AVERAGE SEVERITY GRADES[b]**

Test Compound: Ferrocene

CAS Number: 102-54-5

Date Report Requested: 10/22/2014

Time Report Requested: 06:48:14

First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat FEMALE	30.MG/M3BASIC F	30.MG/M3SPECIALF
Mammary Gland	(10)	(0)
Skin	(10)	(0)
MUSCULOSKELETAL SYSTEM		
Bone	(9)	(0)
Skeletal Muscle	(10)	(0)
NERVOUS SYSTEM		
Brain	(10)	(0)
RESPIRATORY SYSTEM		
Larynx	(10)	(0)
Pigmentation	8 [2.0]	
Lung	(10)	(0)
Bronchiole, Pigmentation	10 [2.0]	
Interstitial, Inflammation	1 [1.0]	
Nose	(10)	(0)
Lamina Propria, Respirat Epith, Inflammation	6 [2.3]	
Nasopharyn Dct, Pigmentation	10 [1.9]	
Olfactory Epi, Hyperplasia	10 [2.0]	
Olfactory Epi, Inflammation	10 [3.2]	
Olfactory Epi, Metaplasia	9 [1.7]	
Olfactory Epi, Necrosis, Focal		
Olfactory Epi, Pigmentation	10 [3.0]	
Respirat Epith, Hyperplasia	1 [1.0]	
Respirat Epith, Inflammation	3 [1.3]	
Respirat Epith, Pigmentation	10 [2.0]	
Squam Epithel, Inflammation	2 [1.0]	
Trachea	(10)	(0)
Pigmentation	10 [2.7]	

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Experiment Number: 05218-03

Test Type: 90-DAY

Species/Strain: Rat/F 344/N

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Test Compound: Ferrocene

CAS Number: 102-54-5

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First Dose M/F: NA / NA

Lab: LITRI

F 344/N Rat FEMALE	30.MG/M3BASIC F	30.MG/M3SPECIALF
<hr/>		
SPECIAL SENSES SYSTEM		
None		
<hr/>		
URINARY SYSTEM		
Kidney	(10)	(0)
Urinary Bladder	(10)	(0)

**** END OF REPORT ****

a - Number of animals examined microscopically at site and number of animals with lesion

b - Average severity grade (1-minimal; 2-mild; 3-moderate; 4-marked)