

**Experiment Number:** 92013-01  
**Test Type:** 14-DAY  
**Route:** DOSED FEED  
**Species/Strain:** Rat/F 344/N

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

**Test Compound:** 4-Methylimidazole  
**CAS Number:** 822-36-6

**Date Report Requested:** 10/22/2014  
**Time Report Requested:** 06:25:05  
**First Dose M/F:** NA / NA  
**Lab:** MBA

<b>C Number:</b>	C92013
<b>Lock Date:</b>	01/12/1995
<b>Cage Range:</b>	All
<b>Date Range:</b>	All
<b>Reasons For Removal:</b>	All
<b>Removal Date Range:</b>	All
<b>Treatment Groups:</b>	All
<b>Study Gender:</b>	Both
<b>PWG Approval Date</b>	NONE

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F 344/N Rat MALE	VEHICLE CONTROL	300 PPM	800 PPM	2500 PPM
<b>Disposition Summary</b>				
Animals Initially In Study	5	5	5	5
Early Deaths				
Survivors				
Terminal Sacrifice	5	5	5	5
Animals Examined Microscopically	5			5
<b>ALIMENTARY SYSTEM</b>				
Liver	(5)	(0)	(0)	(5)
Centrilobular, Hepatocyte, Vacuolization Cytoplasmic	1 [1.0]			1 [2.0]
Inflammation, Focal	4 [1.0]			4 [1.8]
Stomach, Forestomach	(5)	(0)	(0)	(5)
Stomach, Glandular	(5)	(0)	(0)	(5)
<b>CARDIOVASCULAR SYSTEM</b>				
Heart	(5)	(0)	(0)	(5)
<b>ENDOCRINE SYSTEM</b>				
Adrenal Cortex	(5)	(0)	(0)	(5)
Adrenal Medulla	(5)	(0)	(0)	(5)
Pituitary Gland	(5)	(0)	(0)	(5)
Thyroid Gland	(5)	(0)	(0)	(5)
<b>GENERAL BODY SYSTEM</b>				
None				
<b>GENITAL SYSTEM</b>				
Testes	(5)	(0)	(0)	(5)
<b>HEMATOPOIETIC SYSTEM</b>				
Spleen	(5)	(0)	(0)	(5)

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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<b>F 344/N Rat MALE</b>	<b>VEHICLE CONTROL</b>	<b>300 PPM</b>	<b>800 PPM</b>	<b>2500 PPM</b>
Thymus	(5)	(0)	(0)	(5)
INTEGUMENTARY SYSTEM				
None				
MUSCULOSKELETAL SYSTEM				
None				
NERVOUS SYSTEM				
Brain	(5)	(0)	(0)	(5)
RESPIRATORY SYSTEM				
Lung	(5)	(0)	(0)	(5)
SPECIAL SENSES SYSTEM				
None				
URINARY SYSTEM				
Kidney	(5)	(0)	(0)	(5)

\*\*\*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: MBA

F 344/N Rat FEMALE	VEHICLE CONTROL	300 PPM	800 PPM	2500 PPM
<b>Disposition Summary</b>				
Animals Initially In Study	5	5	5	5
Early Deaths				
Survivors				
Terminal Sacrifice	5	5	5	5
Animals Examined Microscopically	5	1	2	5
<b>ALIMENTARY SYSTEM</b>				
Liver	(5)	(0)	(2)	(5)
Hepatodiaphragmatic Nodule, Focal Inflammation, Focal	3 [1.3]		2 [2.0]	2 [1.5]
Stomach, Forestomach	(5)	(0)	(0)	(5)
Stomach, Glandular	(5)	(0)	(0)	(5)
<b>CARDIOVASCULAR SYSTEM</b>				
Heart	(5)	(0)	(0)	(5)
<b>ENDOCRINE SYSTEM</b>				
Adrenal Cortex	(5)	(0)	(0)	(5)
Adrenal Medulla	(5)	(0)	(0)	(4)
Pituitary Gland	(5)	(0)	(0)	(5)
Thyroid Gland	(5)	(0)	(0)	(5)
<b>GENERAL BODY SYSTEM</b>				
None				
<b>GENITAL SYSTEM</b>				
Ovary	(5)	(0)	(0)	(5)
Uterus	(0)	(1)	(0)	(0)
Atrophy		1 [3.0]		
<b>HEMATOPOIETIC SYSTEM</b>				

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F 344/N Rat FEMALE	VEHICLE CONTROL	300 PPM	800 PPM	2500 PPM
Spleen	(5)	(0)	(0)	(5)
Thymus	(5)	(0)	(0)	(5)
INTEGUMENTARY SYSTEM				
None				
MUSCULOSKELETAL SYSTEM				
None				
NERVOUS SYSTEM				
Brain	(5)	(0)	(0)	(5)
RESPIRATORY SYSTEM				
Lung	(5)	(0)	(0)	(5)
SPECIAL SENSES SYSTEM				
None				
URINARY SYSTEM				
Kidney	(5)	(1)	(0)	(5)
Mineralization, Focal	3 [1.3]			3 [1.3]

**\*\* 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)