

**Experiment Number:** 55301-02

**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:** Pyridine

**CAS Number:** 110-86-1

**Date Report Requested:** 10/20/2014

**Time Report Requested:** 06:38:07

**First Dose M/F:** NA / NA

**Lab:** TSI MASON

<b>C Number:</b>	C55301B
<b>Lock Date:</b>	Not Entered.
<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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Lab: TSI MASON

F 344/N Rat MALE	0 PPM	50 PPM	100 PPM	250 PPM	500 PPM	1000 PPM
<b>Disposition Summary</b>						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Survivors						
Terminal Sacrifice	10	10	10	10	10	10
Animals Examined Microscopically	10	10	10	10	10	10
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(10)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Centrilobular, Degeneration					9 [1.0]	9 [1.8]
Centrilobular, Necrosis						2 [1.5]
Clear Cell Focus		1				2
Hepatodiaphragmatic Nodule						1
Hypertrophy					9 [1.0]	9 [1.0]
Inflammation, Chronic	1 [1.0]	1 [1.0]	1 [1.0]	1 [1.0]	7 [1.0]	9 [1.9]
Pigmentation					6 [1.0]	10 [1.1]
Mesentery	(0)	(0)	(0)	(1)	(0)	(0)
Fat, Necrosis				1 [3.0]		
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Acinus, Atrophy	1 [1.0]					2 [1.0]
Salivary Glands	(9)	(0)	(0)	(0)	(0)	(10)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(1)	(10)

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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F 344/N Rat MALE	0 PPM	50 PPM	100 PPM	250 PPM	500 PPM	1000 PPM
Stomach, Glandular	(10)	(0)	(0)	(0)	(1)	(10)
<b>CARDIOVASCULAR SYSTEM</b>						
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Cardiomyopathy	9 [1.1]					5 [1.2]
Mineralization						2 [1.0]
<b>ENDOCRINE SYSTEM</b>						
Adrenal Gland, Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Adrenal Gland, Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(9)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(10)	(0)	(0)	(0)	(0)	(8)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Epididymis	(10)	(0)	(0)	(0)	(0)	(10)
Preputial Gland	(10)	(0)	(0)	(0)	(0)	(10)
Prostate	(10)	(0)	(2)	(0)	(1)	(10)
Dilatation			2 [1.5]		1 [2.0]	
Seminal Vesicle	(10)	(0)	(0)	(0)	(0)	(10)
Testes	(10)	(0)	(0)	(0)	(0)	(10)
Seminif Tub, Mineralization	1 [1.0]					
<b>HEMATOPOIETIC SYSTEM</b>						
Blood	(1)	(0)	(0)	(0)	(0)	(0)
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Lymph Node	(0)	(0)	(0)	(0)	(0)	(2)
Pancreatic, Angiectasis						2 [1.5]

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Lab: TSI MASON

F 344/N Rat MALE	0 PPM	50 PPM	100 PPM	250 PPM	500 PPM	1000 PPM
Pancreatic, Infiltration Cellular, Histiocyte						1 [2.0]
Lymph Node, Mandibular Angiectasis	(10)	(0)	(0)	(0)	(0)	(10) 1 [1.0]
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Cyst						1
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
<b>INTEGUMENTARY SYSTEM</b>						
Mammary Gland	(9)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
<b>MUSCULOSKELETAL SYSTEM</b>						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
<b>NERVOUS SYSTEM</b>						
Brain	(9)	(0)	(0)	(0)	(0)	(10)
<b>RESPIRATORY SYSTEM</b>						
Lung	(10)	(0)	(0)	(0)	(0)	(10)
Hemorrhage						1 [1.0]
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
<b>SPECIAL SENSES SYSTEM</b>						
Eye	(1)	(0)	(0)	(0)	(0)	(0)
<b>URINARY SYSTEM</b>						
Kidney	(10)	(10)	(10)	(10)	(10)	(10)
Casts			3 [1.0]	3 [1.0]	9 [1.0]	9 [1.0]
Casts Granular					3 [1.0]	8 [1.0]
Inflammation, Chronic				2 [1.0]	4 [1.0]	9 [1.0]
Mineralization	2 [1.0]	2 [1.0]	2 [1.0]	6 [1.0]	9 [1.0]	10 [1.0]

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<b>F 344/N Rat MALE</b>	<b>0 PPM</b>	<b>50 PPM</b>	<b>100 PPM</b>	<b>250 PPM</b>	<b>500 PPM</b>	<b>1000 PPM</b>
Renal Tubule, Degeneration, Hyaline	1 [1.0]		1 [1.0]	1 [1.0]	3 [1.0]	7 [1.0]
Renal Tubule, Regeneration	10 [1.0]	10 [1.0]	10 [1.0]	10 [1.1]	10 [1.6]	10 [1.4]
Urinary Bladder	(10)	(3)	(2)	(2)	(1)	(10)
Calculus Gross Observation		3	1	2	1	1
Calculus Micro Observation Only		3	1	2	1	1

\*\*\*END OF MALE DATA\*\*\*

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

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Lab: TSI MASON

F 344/N Rat FEMALE	0 PPM	50 PPM	100 PPM	250 PPM	500 PPM	1000 PPM
<b>Disposition Summary</b>						
Animals Initially In Study	10	10	10	10	10	10
Early Deaths						
Natural Death						2
Survivors						
Terminal Sacrifice	10	10	10	10	10	8
Animals Examined Microscopically	10	10	10	10	10	10
<b>ALIMENTARY SYSTEM</b>						
Esophagus	(10)	(0)	(0)	(0)	(0)	(10)
Cyst	1					
Intestine Large, Cecum	(10)	(0)	(0)	(0)	(0)	(8)
Intestine Large, Colon	(10)	(0)	(0)	(0)	(0)	(10)
Intestine Large, Rectum	(10)	(0)	(0)	(0)	(0)	(9)
Intestine Small, Duodenum	(10)	(0)	(0)	(0)	(0)	(9)
Intestine Small, Ileum	(10)	(0)	(0)	(0)	(0)	(8)
Intestine Small, Jejunum	(10)	(0)	(0)	(0)	(0)	(8)
Liver	(10)	(10)	(10)	(10)	(10)	(10)
Centrilobular, Degeneration					9 [1.0]	9 [1.8]
Centrilobular, Necrosis						2 [3.5]
Hepatodiaphragmatic Nodule	3			1	2	
Hypertrophy					9 [1.0]	8 [1.0]
Inflammation, Chronic					1 [1.0]	4 [1.8]
Pigmentation				7 [1.0]	7 [1.0]	8 [1.1]
Mesentery	(1)	(0)	(0)	(0)	(0)	(0)
Fat, Necrosis	1 [2.0]					
Pancreas	(10)	(0)	(0)	(0)	(0)	(10)
Salivary Glands	(10)	(0)	(0)	(0)	(0)	(9)
Stomach, Forestomach	(10)	(0)	(0)	(0)	(0)	(10)

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Stomach, Glandular	(10)	(0)	(0)	(0)	(0)	(9)
<b>CARDIOVASCULAR SYSTEM</b>						
Heart	(10)	(0)	(0)	(0)	(0)	(10)
Cardiomyopathy	5 [1.0]					6 [1.0]
<b>ENDOCRINE SYSTEM</b>						
Adrenal Gland, Cortex	(10)	(0)	(0)	(0)	(0)	(10)
Adrenal Gland, Medulla	(10)	(0)	(0)	(0)	(0)	(10)
Islets, Pancreatic	(10)	(0)	(0)	(0)	(0)	(10)
Parathyroid Gland	(8)	(0)	(0)	(0)	(0)	(10)
Pituitary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Pars Distalis, Cyst	1					
Thyroid Gland	(10)	(0)	(0)	(0)	(0)	(10)
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
Clitoral Gland	(10)	(0)	(0)	(0)	(0)	(10)
Dilatation	2 [2.0]					
Ovary	(10)	(0)	(1)	(0)	(0)	(10)
Cyst			1			
Uterus	(10)	(0)	(0)	(2)	(0)	(10)
Dilatation				2 [2.0]		
<b>HEMATOPOIETIC SYSTEM</b>						
Bone Marrow	(10)	(0)	(0)	(0)	(0)	(10)
Necrosis						1 [1.0]
Lymph Node	(0)	(0)	(0)	(0)	(0)	(1)
Lumbar, Hyperplasia						1 [2.0]
Mediastinal, Congestion						1 [2.0]

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F 344/N Rat FEMALE	0 PPM	50 PPM	100 PPM	250 PPM	500 PPM	1000 PPM
Renal, Infiltration Cellular, Histiocyte						1 [2.0]
Lymph Node, Mandibular	(10)	(0)	(0)	(0)	(0)	(9)
Infiltration Cellular, Histiocyte						1 [2.0]
Lymph Node, Mesenteric	(10)	(0)	(0)	(0)	(0)	(10)
Hyperplasia						2 [1.5]
Spleen	(10)	(0)	(0)	(0)	(0)	(10)
Thymus	(10)	(0)	(0)	(0)	(0)	(10)
INTEGUMENTARY SYSTEM						
Mammary Gland	(10)	(0)	(0)	(0)	(0)	(10)
Skin	(10)	(0)	(0)	(0)	(0)	(10)
MUSCULOSKELETAL SYSTEM						
Bone	(10)	(0)	(0)	(0)	(0)	(10)
NERVOUS SYSTEM						
Brain	(10)	(0)	(0)	(0)	(0)	(10)
Hemorrhage						1 [2.0]
RESPIRATORY SYSTEM						
Lung	(10)	(0)	(2)	(0)	(0)	(10)
Edema						2 [1.5]
Pleura, Congestion			2 [1.0]			
Nose	(10)	(0)	(0)	(0)	(0)	(10)
Trachea	(10)	(0)	(0)	(0)	(0)	(10)
SPECIAL SENSES SYSTEM						
None						
URINARY SYSTEM						
Kidney	(10)	(0)	(0)	(0)	(0)	(10)
Casts						2 [1.0]
Cyst	1					

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<b>F 344/N Rat FEMALE</b>	<b>0 PPM</b>	<b>50 PPM</b>	<b>100 PPM</b>	<b>250 PPM</b>	<b>500 PPM</b>	<b>1000 PPM</b>
Mineralization	10 [1.6]					10 [1.3]
Urinary Bladder	(10)	(0)	(0)	(0)	(0)	(9)

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**\*\* END OF REPORT \*\***

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