

Experiment Number: 55301-03
Test Type: 90-DAY
Species/Strain: Rat/WISTAR OUTBR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL

Test Compound: Pyridine
CAS Number: 110-86-1

Date Report Requested: 10/21/2014
Time Report Requested: 15:47:38
First Dose M/F: NA / NA
Lab: TSI MASON

C Number:	C55301B
Lock Date:	Not Entered.
Cage Range:	All
Date Range:	All
Reasons For Removal:	All
Removal Date Range:	All
Treatment Groups:	All
Study Gender:	Male
PWG Approval Date	NONE

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WISTAR OUTBR Rat Male 0 PPM	DAY ON TEST										ANIMAL ID	
	0	0	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	0	0
	2	2	2	2	2	2	2	2	2	2	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	0	0	0
	0	0	0	0	0	0	0	0	0	0	0	1
	1	2	3	4	5	6	7	8	9	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
Inflammation, Acute				1							1 1.0

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	+	10
Cardiomyopathy	1			2		1	1			1	5 1.2

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

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M ..Missing tissue

A ..Autolysis precludes evaluation

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

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WISTAR OUTBR Rat Male 0 PPM	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	
	1	2	3	4	5	6	7	8	9	0	
Parathyroid Gland	+	+	+	+	+	+	+	+	+	+	9
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	10
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	10
General Body System											
NONE											
Genital System											
Epididymis	+	+	+	+	+	+	+	+	+	+	9
Preputial Gland	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Chronic Active									1		1 1.0
Prostate	+	+	+	+	+	+	+	+	+	+	10
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	10
Testes	+	+	+	+	+	+	+	+	+	+	10
Seminif Tub, Giant Cell			2								1 2.0
Hematopoietic System											
Bone Marrow	+	+	+	+	+	+	+	+	+	+	10
Lymph Node							+				1
Lumbar, Hyperplasia, Lymphoid						2					1 2.0
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia, Lymphoid						2					1 2.0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia, Lymphoid						2					1 2.0

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WISTAR OUTBR Rat Male 0 PPM	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	
	1	2	3	4	5	6	7	8	9	0	
Kidney	+	+	+	+	+	+	+	+	+	+	10
Casts				1			1			1	3 1.0
Hydronephrosis	1						2				2 1.5
Mineralization		1	1	1	1			1	1	1	7 1.0
Renal Tubule, Degeneration, Hyaline	1	1									2 1.0
Renal Tubule, Regeneration	1		1	1			1			1	5 1.0
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10

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 Lab: TSI MASON

WISTAR OUTBR Rat Male 50 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
		2	2	2	2	2	2	2	2	2	2
	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
		1	1	1	1	1	1	1	1	1	2
		1	2	3	4	5	6	7	8	9	0
		*TOTALS									

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10		
Necrosis, Focal											1	1	1.0

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Lymph Node, Mandibular					+						1	
Hyperplasia, Lymphoid					2						1	2.0

Integumentary System

Skin							+				1
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Musculoskeletal System

NONE

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

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10		
Casts			1		1					1	3	1.0	
Hydronephrosis	1							1			2	1.0	
Inflammation, Chronic									1		1	1.0	
Mineralization				1	1			1	1	2	5	1.2	
Renal Tubule, Regeneration	1	1		1	1		1			1	6	1.0	

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WISTAR OUTBR Rat Male 100 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	9
	2	2	2	2	2	2	2	2	2	2	2
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
	2	2	2	2	2	2	2	2	2	3	3
	1	2	3	4	5	6	7	8	9	0	0
											*TOTALS

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10
Clear Cell Focus			X								1
Necrosis, Focal	1								1		2 1.0

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Lymph Node, Mandibular	+										1
Hyperplasia, Lymphoid	3										1 3.0

Integumentary System

NONE

Musculoskeletal System

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DAY ON TEST		0	0	0	0	0	0	0	0	0	0
WISTAR OUTBR Rat Male		0	0	0	0	0	0	0	0	0	0
100 PPM		9	9	9	9	9	9	9	9	9	9
ANIMAL ID		2	2	2	2	2	2	2	2	2	2
		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
		2	2	2	2	2	2	2	2	3	3
		1	2	3	4	5	6	7	8	9	0
*TOTALS											

NONE
Nervous System

NONE
Respiratory System

NONE
Special Senses System

NONE
Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10		
Casts	1				1		1	1			4	1.0	
Inflammation, Chronic	2										1	2.0	
Mineralization				1		1	1		1		4	1.0	
Renal Tubule, Regeneration	1			1	1		1	1			5	1.0	

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

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	+	10
Clear Cell Focus			1								1 1.0
Inflammation, Chronic					1	1					2 1.0

Cardiovascular System

NONE

Endocrine System

NONE

General Body System

NONE

Genital System

NONE

Hematopoietic System

Lymph Node, Mandibular						+					1
Angiectasis						2					1 2.0

Integumentary System

NONE

Musculoskeletal System

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WISTAR OUTBR Rat Male 250 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
		2	2	2	2	2	2	2	2	2	2
	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
		3	3	3	3	3	3	3	3	4	4
		1	2	3	4	5	6	7	8	9	0
		*TOTALS									

NONE
Nervous System

NONE
Respiratory System

NONE
Special Senses System

NONE
Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10
Casts	2		1		1			2			4 1.5
Mineralization	1		2	1	1		1	2	1	1	8 1.3
Renal Tubule, Degeneration, Hyaline					1					1	2 1.0
Renal Tubule, Regeneration	1	1	1	1	1	1		1	1	1	9 1.0
Urinary Bladder	+				+						2
Calculus Gross Observation	X										1
Calculus Micro Observation Only	X										1
Concretion					2						1 2.0

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WISTAR OUTBR Rat Male 500 PPM	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	0	9	9	9	9	9	9	9	9	
		2	6	2	2	2	2	2	2	2	2	
	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	4	4	4	4	4	4	4	5	
		1	2	3	4	5	6	7	8	9	0	

Alimentary System

Liver	+	+	+	+	+	+	+	+	+	9	
Centrilobular, Degeneration	2	2	2	2	1	1	1	2	2	9	1.7
Centrilobular, Necrosis				1						1	1.0
Hypertrophy	1	1	1	1	1	1	1	1	1	9	1.0
Inflammation, Chronic	2	2	2	2	2	1	1	2	1	9	1.7
Pigmentation	1	1	1	1	1	1	1	1	1	9	1.0

Cardiovascular System

Heart	+	+	+	+	+	+	+	+	+	9	
Cardiomyopathy	1	1	1	1	1	1	1	1		8	1.0

Endocrine System

NONE

General Body System

NONE

Genital System

Testes				+						1	
Edema				1						1	1.0

Hematopoietic System

NONE

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WISTAR OUTBR Rat Male 500 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	0	9	9	9	9	9	9	9	9
		2	6	2	2	2	2	2	2	2	2
	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	4	4	4	4	4	4	5	5
		1	2	3	4	5	6	7	8	9	0
		*TOTALS									

Integumentary System

NONE

Musculoskeletal System

NONE

Nervous System

NONE

Respiratory System

NONE

Special Senses System

NONE

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	9	
Casts			1	1	1	1					4 1.0
Mineralization	1		1	1	1	1		1	1		8 1.0
Renal Tubule, Degeneration, Hyaline			1			1		1			3 1.0
Renal Tubule, Regeneration	1		1	1	1			1	1		7 1.0

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DAY ON TEST		0	0	0	0	0	0	0	0	0	0
WISTAR OUTBR Rat Male		0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9
	1000 PPM	2	2	2	2	2	2	2	2	2	2
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
		5	5	5	5	5	5	5	5	6	6
		1	2	3	4	5	6	7	8	9	0
*TOTALS											

Alimentary System

Esophagus	+	M	+	+	+	+	+	+	+	+	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
Centrilobular, Degeneration	1	1		1	2	1	2	2	1	2	9 1.4
Centrilobular, Necrosis			2								1 2.0
Clear Cell Focus							X				1
Hypertrophy	1	1	1	1	1	1	1	1	1	1	10 1.0
Inflammation, Chronic		2	4	2	2	1	3	2	2	2	9 2.2
Pigmentation	1	1	2	2	1		2	1	1	1	9 1.3
Regeneration							2				1 2.0
Pancreas	+	+	+	+	+	+	+	+	+	+	10
Salivary Glands	+	+	+	+	+	+	+	+	+	+	10
Stomach, Forestomach	+	+	+	+	+	+	+	+	+	+	10
Stomach, Glandular	+	+	+	+	+	+	+	+	+	+	10
Inflammation, Acute							1				1 1.0

Cardiovascular System

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1-4 ..Lesion qualified as:

1) Minimal 3) Moderate

2) Mild 4) Marked

Experiment Number: 55301-03
 Test Type: 90-DAY
 Species/Strain: Rat/WISTAR OUTBR

P09: NON-NEOPLASTIC LESIONS BY INDIVIDUAL ANIMAL
 Test Compound: Pyridine
 CAS Number: 110-86-1

Date Report Requested: 10/21/2014
 Time Report Requested: 15:47:39
 First Dose M/F: NA / NA
 Lab: TSI MASON

WISTAR OUTBR Rat Male 1000 PPM	DAY ON TEST										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					
	9	9	9	9	9	9	9	9	9	9	9					
	2	2	2	2	2	2	2	2	2	2	2					
	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					
	5	5	5	5	5	5	5	5	5	5	5					
	1	2	3	4	5	6	7	8	9							
												*TOTALS				
Heart	+	+	+	+	+	+	+	+	+	+	+			10		
Cardiomyopathy								1			1				2	1.0
Endocrine System																
Adrenal Gland, Cortex	+	+	+	+	+	+	+	+	+	+	+			10		
Adrenal Gland, Medulla	+	+	+	+	+	+	+	+	+	+	+			10		
Islets, Pancreatic	+	+	+	+	+	+	+	+	+	+	+			10		
Parathyroid Gland	M	M	M	+	+	+	+	+	+	+	+			7		
Pituitary Gland	+	+	+	+	+	+	+	+	+	+	+			10		
Thyroid Gland	+	+	+	+	+	+	+	+	+	+	+			10		
General Body System																
NONE																
Genital System																
Epididymis	+	+	+	+	+	+	+	+	+	+	+			10		
Preputial Gland	+	+	+	+	+	+	+	+	+	+	+			10		
Inflammation, Chronic Active				2											1	2.0
Prostate	+	+	+	+	+	+	+	+	+	+	+			10		
Seminal Vesicle	+	+	+	+	+	+	+	+	+	+	+			10		
Testes	+	+	+	+	+	+	+	+	+	+	+			10		
Hematopoietic System																
Bone Marrow	+	+	+	+	+	+	+	+	+	+	+			10		
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	+			10		

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Date Report Requested: 10/21/2014
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 First Dose M/F: NA / NA
 Lab: TSI MASON

WISTAR OUTBR Rat Male 1000 PPM	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	
	0	0	0	0	0	0	0	0	0	0	
	9	9	9	9	9	9	9	9	9	9	
	2	2	2	2	2	2	2	2	2	2	
	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	
	5	5	5	5	5	5	5	5	5	6	
	1	2	3	4	5	6	7	8	9	0	
Lymph Node, Mandibular	+	+	+	+	+	+	+	+	+	+	10
Hyperplasia, Lymphoid			2								1 2.0
Lymph Node, Mesenteric	+	+	+	+	+	+	+	+	+	+	10
Spleen	+	+	+	+	+	+	+	+	+	+	10
Thymus	+	+	+	+	+	+	+	+	+	+	10
Integumentary System											
Mammary Gland	+	+	+	+	M	+	+	+	+	+	9
Skin	+	+	+	+	+	+	+	+	+	+	10
Musculoskeletal System											
Bone	+	+	+	+	+	+	+	+	+	+	10
Nervous System											
Brain	+	+	+	+	+	+	+	+	+	+	10
Respiratory System											
Lung	+	+	+	+	+	+	+	+	+	+	10
Edema							1	1			2 1.0
Hemorrhage							1				1 1.0
Infiltration Cellular, Histiocyte					1						1 1.0
Nose	+	+	+	+	+	+	+	+	+	+	10
Trachea	+	+	+	+	+	+	+	+	+	+	10
Special Senses System											

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Test Compound: Pyridine
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 Time Report Requested: 15:47:39
 First Dose M/F: NA / NA
 Lab: TSI MASON

DAY ON TEST		0	0	0	0	0	0	0	0	0	0
WISTAR OUTBR Rat Male		0	0	0	0	0	0	0	0	0	0
		9	9	9	9	9	9	9	9	9	9
	1000 PPM	2	2	2	2	2	2	2	2	2	2
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
		5	5	5	5	5	5	5	5	6	6
		1	2	3	4	5	6	7	8	9	0
*TOTALS											

NONE

Urinary System

Kidney	+	+	+	+	+	+	+	+	+	+	10
Casts	1	1					1	1		1	5 1.0
Casts Granular							1				1 1.0
Inflammation, Chronic						1	1				2 1.0
Mineralization	1	1	1	1	1	1	1	1	1	1	10 1.0
Renal Tubule, Degeneration, Hyaline	1	1		1		1	1		1		6 1.0
Renal Tubule, Regeneration	1	1		1		1	2	1	1	1	8 1.1
Urinary Bladder	+	+	+	+	+	+	+	+	+	+	10
Calculus Gross Observation										X	1
Calculus Micro Observation Only										X	1
Dilatation			2								1 2.0

END OF MALE DATA

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