

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Study Number: C20302B-01
Study Sex: Both
PWG Approval Date: See web page for date of PWG Approval
Version: v1.7.0

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Lab: Battelle with EPL

Male: Interim Males											
B6C3F1/N Mouse Male 0 ppm	DAY ON TEST	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	*TOTALS
		<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	
		0	0	0	0	0	0	0	0	0	
		8	8	8	8	8	8	8	8	8	
		9	9	9	9	9	9	9	9	9	
	ANIMAL ID	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	4	0	0	
		4	4	4	4	4	4	0	4	4	
		0	0	0	0	0	0	7	0	0	
		1	2	3	4	5	6	R	8	9	
ALIMENTARY SYSTEM											
NONE											
CARDIOVASCULAR SYSTEM											
NONE											
ENDOCRINE SYSTEM											
NONE											
GENERAL BODY SYSTEM											
NONE											
HEMATOPOIETIC SYSTEM											
NONE											
HEPATOBIILIARY SYSTEM											
NONE											
IMMUNE SYSTEM											
NONE											
INTEGUMENTARY SYSTEM											
NONE											
MUSCULOSKELETAL SYSTEM											
NONE											
NERVOUS SYSTEM											
NONE											

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Male: Interim Males												
B6C3F1/N Mouse Male 0 ppm	DAY ON TEST	<i>S</i> <i>D</i> 0 8 9	<i>S</i> <i>D</i> 0 8 9	<i>S</i> <i>D</i> 0 8 9	<i>S</i> <i>D</i> 0 8 9	<i>S</i> <i>D</i> 0 8 9	<i>S</i> <i>D</i> 0 8 9	<i>S</i> <i>D</i> 0 8 9	<i>S</i> <i>D</i> 0 8 9	<i>S</i> <i>D</i> 0 8 9		
		0	0	0	0	0	0	0	0	0		0
		0	0	0	0	0	0	4	0	0		0
		4	4	4	4	4	4	0	4	4		4
	ANIMAL ID	0	0	0	0	0	0	7	0	0	1	*TOTALS
		1	2	3	4	5	6	R	8	9	0	
REPRODUCTIVE SYSTEM												
EPIDIDYMIS		+	+	+	+	+	+	+	+	+	10	
TESTIS		+	+	+	+	+	+	+	+	+	10	
GERMINAL EPITHELIUM; DEGENERATION								1				1 1.0
RESPIRATORY SYSTEM												
NONE												
SPECIAL SENSES SYSTEM												
NONE												
URINARY SYSTEM												
URINARY BLADDER		+	+	+	+	+	+	+	+	+	10	
INFILTRATION CELLULAR; MIXED CELL										1	1 1.0	

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Male: Interim Males											
B6C3F1/N Mouse Male 100 ppm	DAY ON TEST	S	S	S	S	S	S	S	S	S	*TOTALS
		D	D	D	D	D	D	D	D	D	
		0	0	0	0	0	0	0	0	0	
		8	8	8	8	8	8	8	8	8	
		9	9	9	9	9	9	9	9	9	
	ANIMAL ID	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	
		1	1	1	1	1	1	1	1	2	
		1	2	3	4	5	6	7	8	9	
ALIMENTARY SYSTEM											
NONE											
CARDIOVASCULAR SYSTEM											
NONE											
ENDOCRINE SYSTEM											
NONE											
GENERAL BODY SYSTEM											
NONE											
HEMATOPOIETIC SYSTEM											
NONE											
HEPATOBIILIARY SYSTEM											
NONE											
IMMUNE SYSTEM											
NONE											
INTEGUMENTARY SYSTEM											
NONE											
MUSCULOSKELETAL SYSTEM											
NONE											
NERVOUS SYSTEM											
NONE											

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Male: Interim Males												
B6C3F1/N Mouse Male 100 ppm	DAY ON TEST	<i>S</i> <i>D</i> 0 8 9	<i>S</i> <i>D</i> 0 8 9	<i>S</i> <i>D</i> 0 8 9	<i>S</i> <i>D</i> 0 8 9	<i>S</i> <i>D</i> 0 8 9	<i>S</i> <i>D</i> 0 8 9	<i>S</i> <i>D</i> 0 8 9	<i>S</i> <i>D</i> 0 8 9	<i>S</i> <i>D</i> 0 8 9		
		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		4
		1	1	1	1	1	1	1	1	1		2
	ANIMAL ID	1	2	3	4	5	6	7	8	9	0	*TOTALS
		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	4	
		1	1	1	1	1	1	1	1	1	2	
REPRODUCTIVE SYSTEM												
EPIDIDYMIS		+	+	+	+	+	+	+	+	+	10	
TESTIS		+	+	+	+	+	+	+	+	+	10	
GERMINAL EPITHELIUM; DEGENERATION			1								1 1.0	
RESPIRATORY SYSTEM												
NONE												
SPECIAL SENSES SYSTEM												
NONE												
URINARY SYSTEM												
URINARY BLADDER		+	+	+	+	+	+	+	+	+	10	
INFILTRATION CELLULAR; LYMPHOCYTE					1						1 1.0	
SINGLE CELL DEATH		1	1	1	1	1		1	1	1	9 1.0	
CYTOPLASMIC; VACUOLATION		1	1	1	1	1		1	1	1	9 1.0	

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Male: Interim Males											
B6C3F1/N Mouse Male 200 ppm	DAY ON TEST	S	S	S	S	S	S	S	S	S	*TOTALS
		D	D	D	D	D	D	D	D	D	
		0	0	0	0	0	0	0	0	0	
		8	8	8	8	8	8	8	8	8	
	ANIMAL ID	9	9	9	9	9	9	9	9	9	
		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		
2	2	2	2	2	2	2	2	2	3		
1	2	3	4	5	6	7	8	9	0		
ALIMENTARY SYSTEM											
NONE											
CARDIOVASCULAR SYSTEM											
NONE											
ENDOCRINE SYSTEM											
NONE											
GENERAL BODY SYSTEM											
NONE											
HEMATOPOIETIC SYSTEM											
NONE											
HEPATOBIILIARY SYSTEM											
NONE											
IMMUNE SYSTEM											
NONE											
INTEGUMENTARY SYSTEM											
NONE											
MUSCULOSKELETAL SYSTEM											
NONE											
NERVOUS SYSTEM											
NONE											

Male: Interim Males											
B6C3F1/N Mouse Male 200 ppm	DAY ON TEST	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	<i>S</i>	*TOTALS
		<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	<i>D</i>	
		0	0	0	0	0	0	0	0	0	
		8	8	8	8	8	8	8	8	8	
		9	9	9	9	9	9	9	9	9	
	ANIMAL ID	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	
		2	2	2	2	2	2	2	2	3	
		1	2	3	4	5	6	7	8	9	
REPRODUCTIVE SYSTEM											
EPIDIDYMIS		+	+	+	+	+	+	+	+	+	10
TESTIS		+	+	+	+	+	+	+	+	+	10
GERMINAL EPITHELIUM; DEGENERATION								1			1 1.0
RESPIRATORY SYSTEM											
NONE											
SPECIAL SENSES SYSTEM											
NONE											
URINARY SYSTEM											
URINARY BLADDER		+	+	+	+	+	+	+	+	+	10
UROTHELIUM; HYPERPLASIA		1	1			1	1	1		1	6 1.0
INFILTRATION CELLULAR; LYMPHOCYTE		1	1	2	1		1	1	1	1	9 1.1
SINGLE CELL DEATH		1	1	1	1	1		1	1	1	9 1.0
CYTOPLASMIC; VACUOLATION		1	1	1	1	1	1	1	1	2	10 1.1

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B6C3F1/N Mouse Male 400 ppm	DAY ON TEST	S	S	S	S	S	S	S	S	S	*TOTALS
		D	D	D	D	D	D	D	D	D	
		0	0	0	0	0	0	0	0	0	
		8	8	8	8	8	8	8	8	8	
		9	9	9	9	9	9	9	9	9	
	ANIMAL ID	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	
		3	3	3	3	3	3	3	3	4	
		1	2	3	4	5	6	7	8	9	
ALIMENTARY SYSTEM											
NONE											
CARDIOVASCULAR SYSTEM											
NONE											
ENDOCRINE SYSTEM											
NONE											
GENERAL BODY SYSTEM											
NONE											
HEMATOPOIETIC SYSTEM											
NONE											
HEPATOBIILIARY SYSTEM											
NONE											
IMMUNE SYSTEM											
NONE											
INTEGUMENTARY SYSTEM											
NONE											
MUSCULOSKELETAL SYSTEM											
NONE											
NERVOUS SYSTEM											
NONE											

Male: Interim Males											
B6C3F1/N Mouse Male 400 ppm	DAY ON TEST	S	S	S	S	S	S	S	S	S	
		D	D	D	D	D	D	D	D	D	
		0	0	0	0	0	0	0	0	0	
		8	8	8	8	8	8	8	8	8	
	ANIMAL ID	9	9	9	9	9	9	9	9	9	
		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		
	3	3	3	3	3	3	3	3	3		
	1	2	3	4	5	6	7	8	9	0	*TOTALS
REPRODUCTIVE SYSTEM											
EPIDIDYMIS		+	+	+	+	+	+	+	+	+	10
TESTIS		+	+	+	+	+	+	+	+	+	10
GERMINAL EPITHELIUM; ATROPHY						3					1 3.0
GERMINAL EPITHELIUM; DEGENERATION			1								1 1.0
RESPIRATORY SYSTEM											
NONE											
SPECIAL SENSES SYSTEM											
NONE											
URINARY SYSTEM											
URINARY BLADDER		+	+	+	+	+	+	+	+	+	10
UROTHELIUM; HYPERPLASIA		1	1	1	1	1	1	1	1	1	10 1.0
INFILTRATION CELLULAR; LYMPHOCYTE		1	1	1	1	1	1	1	1	1	10 1.0
SINGLE CELL DEATH		1	1	1	1	1	1	1	1	1	10 1.0
CYTOPLASMIC; VACUOLATION		1	1	1	1	1	1	1	1	1	10 1.0

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Male: Core Animals

B6C3F1/N Mouse Male 0 ppm		Male: Core Animals																											
DAY ON TEST	ANIMAL ID	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S
		D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D
7	2	7	7	6	7	7	7	6	7	7	7	7	7	3	7	6	7	7	7	7	7	7	4	7	7	7	7	7	7
2	2	2	5	3	3	2	0	2	3	2	2	2	6	3	0	3	2	3	3	2	2	3	2	2	3	3	0	2	2
9	9	9	3	0	1	9	3	9	0	9	9	9	9	0	0	0	9	0	0	9	9	0	9	0	1	6	1	5	9
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	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
		0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3
		1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	7
ALIMENTARY SYSTEM																													
ESOPHAGUS		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
INTESTINE, LARGE, CECUM		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
INTESTINE, LARGE, COLON		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+
INTESTINE, LARGE, RECTUM		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
INTESTINE, SMALL, DUODENUM		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+
PERFORATION		X																											
INTESTINE, SMALL, ILEUM		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
CELLULARITY INCREASED; LYMPHOCYTE		1																											
INTESTINE, SMALL, JEJUNUM		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+
MESENTERY		+																											
ADIPOSE TISSUE; INFLAMMATION; SUPPURATIVE		4																											
ADIPOSE TISSUE; NECROSIS		X																											
PANCREAS		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
SALIVARY GLAND		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
INFILTRATION CELLULAR; MONONUCLEAR CELL		1																											
STOMACH, FORESTOMACH		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+
EPITHELIUM; HYPERPLASIA; FOCAL INFLAMMATION; CHRONIC-ACTIVE																													
STOMACH, GLANDULAR		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+
EROSION		1																											

			Male: Core Animals																																
B6C3F1/N Mouse Male 0 ppm	DAY ON TEST	ANIMAL ID	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
			D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
			7	7	6	7	7	7	6	7	7	7	7	7	3	7	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
			2	2	5	3	3	2	0	2	3	2	2	2	6	3	0	3	2	3	3	2	2	3	2	2	3	3	1	1	5	9	9	1	9
			9	9	3	0	1	9	3	9	0	9	9	9	9	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	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	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3		
			1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	
CARDIOVASCULAR SYSTEM																																			
AORTA			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
HEART			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
CARDIOMYOPATHY						1	1	1	1	1						1	1	1	1	2	1	1	1			1	2		1	1		1	1		
VALVE; PIGMENT																																	2		
ATRIUM; THROMBUS																																			
ENDOCRINE SYSTEM																																			
ADRENAL GLAND			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
CORTEX, SUBCAPSULAR; HYPERPLASIA							3																3							2					
CORTEX; HYPERPLASIA; FOCAL			1																							1									
CORTEX, BILATERAL; HYPERTROPHY; FOCAL							2												3											2					
CORTEX; HYPERTROPHY; FOCAL																					1					2									
CORTEX; HYPERTROPHY																							3												
PARATHYROID GLAND			+	+	+	+	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
PITUITARY GLAND			+	+	+	+	+	+	+	+	+	+	N	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
PARS DISTALIS; CYST								X								X							X					X							
THYROID GLAND			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
GENERAL BODY SYSTEM																																			
CAVITY																																+			
HEMATOPOIETIC SYSTEM																																			
BONE MARROW			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		

			Male: Core Animals																																																																																																																																																																																																																																																																																																																																																																																																																																														
B6C3F1/N Mouse Male 0 ppm																																																																																																																																																																																																																																																																																																																																																																																																																																																	
DAY ON TEST			S D 7 2	S D 7 2	S D 6 5	S D 7 3	S D 7 1	S D 7 2	S D 6 0	S D 7 2	S D 7 3	S D 7 2	S D 7 2	S D 3 6	S D 7 3	S D 6 0	S D 7 3	S D 7 2	S D 3 3	S D 7 3	S D 7 2	S D 4 2	S D 7 3	S D 7 3	S D 7 2	S D 7 3	S D 7 1	S D 7 0	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2	S D 7 3	S D 7 2

			Male: Core Animals																																								
B6C3F1/N Mouse Male 0 ppm			DAY ON TEST	ANIMAL ID	S D 7 2 9	S D 7 2 9	S D 6 5 3	S D 7 3 1	S D 7 2 9	S D 7 0 3	S D 6 2 9	S D 7 3 0	S D 7 2 9	S D 7 3 0	S D 6 2 9	S D 7 3 0	S D 7 2 9	S D 7 3 0	S D 7 2 9	S D 7 3 0	S D 7 2 9	S D 7 3 0	S D 7 2 9	S D 4 2 9	S D 7 3 0	S D 7 2 9	S D 7 3 1	S D 7 2 5	S D 7 3 9	S D 7 2 3	S D 7 3 1	S D 7 2 3	S D 7 3 4	S D 7 2 5	S D 7 3 6	S D 7 2 7							
					0 0 0 0 1	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 0 0	0 0 0 0 1	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 0 0	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9	0 0 0 0 0	0 0 0 0 1	0 0 0 0 2	0 0 0 0 3	0 0 0 0 4	0 0 0 0 5	0 0 0 0 6	0 0 0 0 7	0 0 0 0 8	0 0 0 0 9
INTEGUMENTARY SYSTEM																																											
SKIN			+																																								
PENIS; INFLAMMATION; CHRONIC-ACTIVE			2																																								
INFLAMMATION; CHRONIC-ACTIVE																																											
INFLAMMATION; GRANULOMATOUS																																											
INFLAMMATION; SUPPURATIVE																																											
PENIS; ULCER			4																																								
ULCER																																											
MUSCULOSKELETAL SYSTEM																																											
BONE, FEMUR			+																																								
SKELETAL MUSCLE																																											
HEMORRHAGE																																											
NERVOUS SYSTEM																																											
BRAIN			+																																								
NERVE, SCIATIC																																											
NERVE, TRIGEMINAL																																											
DEGENERATION																																											
SPINAL CORD																																											

			Male: Core Animals																																	
B6C3F1/N Mouse Male 0 ppm	DAY ON TEST	ANIMAL ID	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		
			D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D		
			7	7	6	7	7	7	6	7	7	7	7	7	3	7	6	7	7	7	7	7	7	7	4	7	7	7	7	7	7	7	7	7		
			2	2	5	3	3	2	0	2	3	2	2	2	6	3	0	3	2	3	3	2	2	3	2	2	3	3	0	2	2	3	2	3	2	
			9	9	3	0	1	9	3	9	0	9	9	9	9	0	0	0	9	0	0	0	0	0	0	0	0	1	6	1	1	5	9	9	1	9
			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	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	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	
			1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4
REPRODUCTIVE SYSTEM																																				
COAGULATING GLAND																																				
BILATERAL; ATROPHY																																				
EPIDIDYMIS			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
EPITHELIUM, BILATERAL; APOPTOSIS																																				
DUCT, BILATERAL; ATROPHY																																				
DUCT, BILATERAL; EXFOLIATED GERM CELL																																				
BILATERAL; HYOSPERMIA																																				
MAMMARY GLAND			+	N	+	+	+	+	N	+	+	+	+	N	N	N	N	N	N	N	N	N	+	+	N	N	+	+	+	+	N	N	+	+	+	
PREPUTIAL GLAND			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
INFLAMMATION; GRANULOMATOUS																																				
INFLAMMATION; SUPPURATIVE																																				
PROSTATE			+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
ACINUS; ATROPHY																																				
EPITHELIUM; HYPERPLASIA																																				
INFLAMMATION; CHRONIC-ACTIVE																																				
INFLAMMATION; SUPPURATIVE																																				
SEMINAL VESICLE			+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
ATROPHY																																				
INFLAMMATION; CHRONIC																																				
INFLAMMATION; CHRONIC-ACTIVE																																				
TESTIS			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
GERMINAL EPITHELIUM; ATROPHY																																				

Male: Core Animals																																				
B6C3F1/N Mouse Male 0 ppm	DAY ON TEST	ANIMAL ID	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S		
			D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D		
			7	7	6	7	7	7	6	7	7	7	7	7	3	7	6	7	7	7	7	7	7	7	7	4	7	7	7	7	7	7	7	7	7	
			2	2	5	3	3	2	0	2	3	2	2	2	6	3	0	3	2	3	3	2	2	3	2	2	3	3	3	0	2	2	3	2	3	2
			9	9	3	0	1	9	3	9	0	9	9	9	9	0	0	0	9	0	0	9	9	0	9	9	0	0	1	6	1	1	5	9	9	1
			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	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	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	
			1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	
RESPIRATORY SYSTEM																																				
LARYNX			+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+		
GLAND; INFLAMMATION; SUPPURATIVE							1						1	1															1			1				
INFLAMMATION; SUPPURATIVE				1																																
LUNG			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+		
ALVEOLAR/BRONCHIOLAR, EPITHELIUM; HYPERPLASIA													4																							
PERIVASCULAR; INFILTRATION CELLULAR; MONONUCLEAR CELL				1																																
PERIVASCULAR; INFLAMMATION; ACUTE																																				
METAPLASIA; OSSEOUS																																		X		
NOSE			+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+		
OLFACTORY EPITHELIUM; ATROPHY														1																						
STENO'S GLAND; ATROPHY			2				1								1		1										1							2		
FOREIGN BODY																															X					
RESPIRATORY EPITHELIUM; HYPERPLASIA			1										1				1								1	1			1				1			
NASOLACRIMAL DUCT; INFLAMMATION; SUPPURATIVE							1																													
OLFACTORY EPITHELIUM; INFLAMMATION; SUPPURATIVE																																				
RESPIRATORY EPITHELIUM; INFLAMMATION; CHRONIC-ACTIVE														2																						
RESPIRATORY EPITHELIUM; INFLAMMATION; SUPPURATIVE																																		1		

Male: Core Animals																																		
B6C3F1/N Mouse Male 0 ppm	DAY ON TEST	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	S	
		D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	D	
		7	7	6	7	7	7	6	7	7	7	7	7	3	7	6	7	7	7	7	7	7	4	7	7	7	7	7	7	7	7	7	7	
		2	2	5	3	3	2	0	2	3	2	2	2	6	3	0	3	2	3	3	2	2	3	2	2	3	3	0	2	3	2	3	2	2
	9	9	3	0	1	9	3	9	0	9	9	9	9	0	0	0	9	0	0	0	0	0	0	0	0	0	1	6	1	1	5	9	9	9
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	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	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	2	2	2	2	2	2	2	2	3	3	3	3	3	3
OLFACTORY EPITHELIUM; METAPLASIA; RESPIRATORY		1																																
RESPIRATORY EPITHELIUM; METAPLASIA; SQUAMOUS		1																																
TRACHEA		+	+	A	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	A	+	+	+	+	+	+	+	+	+	+	
SPECIAL SENSES SYSTEM																																		
EYE		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
CORNEA; HYPERPLASIA; SQUAMOUS		1																																
HARDERIAN GLAND		+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	
HYPERPLASIA		4																																
INFLAMMATION; SUPPURATIVE		4																																

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

B6C3F1/N Mouse Male
0 ppm

DAY ON TEST

ANIMAL ID

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

*TOTALS

ALIMENTARY SYSTEM

ESOPHAGUS	+	+	+	+	+	+	+	+	+	+	+	+	+	50
INTESTINE, LARGE, CECUM	+	+	+	+	+	+	+	+	+	+	+	+	+	50
INTESTINE, LARGE, COLON	+	+	+	+	+	+	+	+	+	+	+	+	+	49
INTESTINE, LARGE, RECTUM	+	+	+	+	+	+	+	+	+	+	+	+	+	50
INTESTINE, SMALL, DUODENUM	+	+	+	+	+	+	+	+	+	+	+	+	+	49
PERFORATION														1
INTESTINE, SMALL, ILEUM	+	+	+	+	+	+	+	+	+	+	+	+	+	50
CELLULARITY INCREASED; LYMPHOCYTE														1 1.0
INTESTINE, SMALL, JEJUNUM	+	+	+	+	+	+	+	+	+	+	+	+	+	49
MESENTERY														2
ADIPOSE TISSUE; INFLAMMATION; SUPPURATIVE														1 4.0
ADIPOSE TISSUE; NECROSIS														2
PANCREAS	+	+	+	+	+	+	+	+	+	+	+	+	+	50
SALIVARY GLAND	+	+	+	+	+	+	+	+	+	+	+	+	+	50
INFILTRATION CELLULAR; MONONUCLEAR CELL														1 1.0
STOMACH, FORESTOMACH	+	+	+	+	+	+	+	+	+	+	+	+	+	49
EPITHELIUM; HYPERPLASIA; FOCAL												1		1 1.0
INFLAMMATION; CHRONIC-ACTIVE												1		1 1.0
STOMACH, GLANDULAR	+	+	+	+	+	+	+	+	+	+	+	+	+	50
EROSION														1 1.0

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0 ppm

DAY ON TEST

ANIMAL ID

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

*TOTALS

CARDIOVASCULAR SYSTEM

AORTA	+	+	+	+	+	+	+	+	+	+	+	+	+	50
HEART	+	+	+	+	+	+	+	+	+	+	+	+	+	50
CARDIOMYOPATHY	1	2	1	1			1	1	1		1	1	1	34 1.1
VALVE; PIGMENT														1 2.0
ATRIUM; THROMBUS						X								1

ENDOCRINE SYSTEM

ADRENAL GLAND	+	+	+	+	+	+	+	+	+	+	+	+	+	50
CORTEX, SUBCAPSULAR; HYPERPLASIA												3		4 2.8
CORTEX; HYPERPLASIA; FOCAL														2 1.0
CORTEX, BILATERAL; HYPERTROPHY; FOCAL													1	4 2.0
CORTEX; HYPERTROPHY; FOCAL												2		3 1.7
CORTEX; HYPERTROPHY														1 3.0
PARATHYROID GLAND	+	+	+	+	+	+	+	+	+	+	+	+	+	49
PITUITARY GLAND	+	+	+	+	+	+	+	+	+	+	+	+	+	49
PARS DISTALIS; CYST														4
THYROID GLAND	+	+	+	+	+	+	+	+	+	+	+	+	+	50

GENERAL BODY SYSTEM

CAVITY														1
--------	--	--	--	--	--	--	--	--	--	--	--	--	--	---

HEMATOPOIETIC SYSTEM

BONE MARROW	+	+	+	+	+	+	+	+	+	+	+	+	+	50
-------------	---	---	---	---	---	---	---	---	---	---	---	---	---	----

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

B6C3F1/N Mouse Male
0 ppm

DAY ON TEST

ANIMAL ID

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

*TOTALS

HEPATOBIILIARY SYSTEM

GALLBLADDER

+ + + + + + + + + + + + + +

50

EPITHELIUM; HYPERPLASIA

1 1.0

INFLAMMATION; ACUTE

1 1.0

LIVER

+ + + + + + + + + + + + + +

50

BASOPHILIC FOCUS

1

CLEAR CELL FOCUS; MULTIPLE

X

2

CLEAR CELL FOCUS

6

BILE DUCT; CYST

1

EOSINOPHILIC FOCUS; MULTIPLE

X

2

EOSINOPHILIC FOCUS

5

EXTRAMEDULLARY HEMATOPOIESIS

4

2

2 3.0

FATTY CHANGE; DIFFUSE

1

13 1.1

INFLAMMATION; FOCAL

2 2.0

MIXED CELL FOCUS; MULTIPLE

X

2

MIXED CELL FOCUS

2

MULTINUCLEATED HEPATOCYTE

3 1.0

NECROSIS

1 2.0

TENSION LIPIDOSIS

1

3 1.0

| Male: Core Animals | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------|---|-----|-----|--|--|
| B6C3F1/N Mouse Male
0 ppm | DAY ON TEST | S
D
7
3
1 | S
D
7
3
0 | S
D
6
2
1 | S
D
7
3
0 | S
D
7
3
0 | S
D
5
2
0 | S
D
7
3
0 | S
D
7
2
9 | S
D
5
5
7 | S
D
6
0
6 | S
D
7
3
0 | S
D
7
3
0 | S
D
7
3
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 | | | | | | |
| | ANIMAL ID | 3
8 | 3
9 | 4
0 | 4
1 | 4
2 | 4
3 | 4
4 | 4
5 | 4
6 | 4
7 | 4
8 | 4
9 | 5
0 | *TOTALS | | | | | |
| IMMUNE SYSTEM | | | | | | | | | | | | | | | | | | | | |
| LYMPH NODE | | | | | | | | | | | | | | + | + | 2 | | | | |
| EXTRAMEDULLARY HEMATOPOIESIS | | | | | | | | | | | | | | 2 | | 1 | 2.0 | | | |
| LYMPH NODE, BRONCHIAL | + | + | + | + | + | + | + | N | + | + | + | + | + | + | 41 | | | | | |
| HYPERPLASIA; LYMPHOCYTE | | | | | | | | | | | | | | | | 1 | 3.0 | | | |
| LYMPH NODE, MANDIBULAR | + | + | + | + | + | + | + | + | + | + | + | + | N | + | 47 | | | | | |
| EXTRAMEDULLARY HEMATOPOIESIS | | | | | | | | | | | | | | 2 | | 1 | 2.0 | | | |
| HYPERPLASIA; LYMPHOCYTE | 4 | | | | 3 | | | | | | | | | 3 | 3.7 | | | | | |
| LYMPH NODE, MEDIASTINAL | + | + | + | + | + | N | + | I | + | + | + | + | + | + | 42 | | | | | |
| HEMORRHAGE | | | | | | | | | | | | | | | | 1 | 4.0 | | | |
| LYMPH NODE, MESENTERIC | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | |
| EXTRAMEDULLARY HEMATOPOIESIS | | | | | | | | | | | | | | 2 | | 1 | 2.0 | | | |
| HEMORRHAGE | | | | | | | | | | | | | | | | 2 | 2.0 | | | |
| HYPERPLASIA; LYMPHOCYTE | 4 | | | | 3 | | | | | | | | | 3 | 3.3 | | | | | |
| SPLEEN | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | | | |
| EXTRAMEDULLARY HEMATOPOIESIS;
INCREASED | 4 | | | | 4 | | | | 3 | 4 | | | | | | | 6 | 3.7 | | |
| HEMORRHAGE | | | | | | | | | | | | | | | | 1 | 4.0 | | | |
| THYMUS | + | + | + | + | + | N | + | + | + | + | + | + | + | + | 46 | | | | | |
| ATROPHY | | | | | | | | | | | | | | | | 2 | 3.0 | | | |

| Male: Core Animals | | | | | | | | | | | | | | | |
|-------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| B6C3F1/N Mouse Male
0 ppm | DAY ON TEST | S | S | S | S | S | S | S | S | S | S | S | S | S | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | |
| | | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | |
| | | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 5 | 0 | 3 | 3 | 3 | |
| | ANIMAL ID | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 9 | 7 | 6 | 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 | |
| | | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | |
| SKIN | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| PENIS; INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | | | 2 2.0 |
| INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | 3 | | | | 1 3.0 |
| INFLAMMATION; GRANULOMATOUS | | | 4 | | | | | | | | | | | | 1 4.0 |
| INFLAMMATION; SUPPURATIVE | | | | | | | 4 | | | | | | | | 1 4.0 |
| PENIS; ULCER | | | | | | | | | | | | | | | 1 4.0 |
| ULCER | | | | | | | 4 | | | | | | | | 1 4.0 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | |
| BONE, FEMUR | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| SKELETAL MUSCLE | | | | + | | | | | | + | | | | | 2 |
| HEMORRHAGE | | | | | | | | | | 2 | | | | | 1 2.0 |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | |
| BRAIN | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| NERVE, SCIATIC | | | | + | | | | | | | | | | | 1 |
| NERVE, TRIGEMINAL | | | | + | | | | | | | | | | | 1 |
| DEGENERATION | | | | 3 | | | | | | | | | | | 1 3.0 |
| SPINAL CORD | | | | + | | | | | | | | | | | 1 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

B6C3F1/N Mouse Male
0 ppm

DAY ON TEST

ANIMAL ID

| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 7 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 |
| 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 5 | 0 | 3 | 3 | 3 | 3 | 3 |
| 1 | 0 | 1 | 0 | 0 | 0 | 0 | 9 | 7 | 6 | 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 |
| 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 |

*TOTALS

REPRODUCTIVE SYSTEM

| | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| COAGULATING GLAND | | | | | | | | | | | | | | | 1 | |
| BILATERAL; ATROPHY | | | | | | | | | | | | | | | 1 | 4.0 |
| EPIDIDYMIS | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| EPITHELIUM, BILATERAL; APOPTOSIS | | | | | | | | | | | | | | | 1 | 1.0 |
| DUCT, BILATERAL; ATROPHY | | | | | | | | | | | | | | | 2 | 2.5 |
| DUCT, BILATERAL; EXFOLIATED GERM CELL | 1 | | | | | | | | | | | | | | 2 | 1.0 |
| BILATERAL; HYOSPERMIA | | | | | | | | | | | | | | | 1 | 4.0 |
| MAMMARY GLAND | N | N | + | N | N | N | N | N | N | + | N | + | N | | 23 | |
| PREPUTIAL GLAND | + | + | + | + | + | + | + | + | + | + | N | + | + | | 49 | |
| INFLAMMATION; GRANULOMATOUS | | | | | | | | | | | | | | | 1 | 3.0 |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | 3 | 2.7 |
| PROSTATE | + | + | + | + | + | + | + | + | + | + | + | + | + | | 49 | |
| ACINUS; ATROPHY | | | | | | | | | | | | 3 | | | 2 | 3.0 |
| EPITHELIUM; HYPERPLASIA | | | | | | | | | | | | | | | 1 | 1.0 |
| INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | | | 2 | 1.0 |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | 1 | 2.0 |
| SEMINAL VESICLE | + | + | + | + | + | + | + | + | + | + | + | + | + | | 49 | |
| ATROPHY | | | | | | | | | | | | | | | 2 | 4.0 |
| INFLAMMATION; CHRONIC | | | | | | | | | | | | | | | 1 | 3.0 |
| INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | | | 1 | 3.0 |
| TESTIS | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | |
| GERMINAL EPITHELIUM; ATROPHY | | | | | | | | | | | | | | | 2 | 2.5 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

| B6C3F1/N Mouse Male
0 ppm | | DAY ON TEST | | | | | | | | | | | | | | | *TOTALS | | |
|---|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|-----|-----|---------|--|--|
| | | S | S | S | S | S | S | S | S | S | S | S | S | S | S | | | | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | D | | | | |
| | | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | | | | |
| | | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 5 | 0 | 3 | 3 | 3 | 3 | | | | |
| | | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 9 | 7 | 6 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | |
| | | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | | | | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | | | |
| GERMINAL EPITHELIUM, BILATERAL;
DEGENERATION | | 1 | | | | | | | | | | | | 9 | 1.6 | | | | |
| GERMINAL EPITHELIUM;
DEGENERATION | | 1 | 1 | 2 | | | | | | 5 | | | | | | 1.2 | | | |
| RETE TESTIS; DILATION | | 1 | | | | 1 | | | | | | | | | | 3 | 1.0 | | |
| SEMINIFEROUS TUBULE, BILATERAL;
DILATION | | | | | | | | | | | | | | 1 | 2.0 | | | | |
| SEMINIFEROUS TUBULE; DILATION | | 1 | | | | | | | | | | | | | 1 | 1.0 | | | |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

B6C3F1/N Mouse Male
0 ppm

DAY ON TEST

ANIMAL ID

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 7 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 7 |
| 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 5 | 0 | 3 | 3 | 3 | 3 | 3 | 3 |
| 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 9 | 7 | 6 | 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 |
| 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 | 0 |

*TOTALS

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| LARYNX | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| GLAND; INFLAMMATION;
SUPPURATIVE | | | | | | | | | | | | | | | 5 | 1.0 |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | 1 | 1.0 |
| LUNG | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| ALVEOLAR/BRONCHIOLAR,
EPITHELIUM; HYPERPLASIA | | | | | 4 | | | | | | | | | | 2 | 4.0 |
| PERIVASCULAR; INFILTRATION
CELLULAR; MONONUCLEAR CELL | | | | | | | | | | | | | | | 1 | 1.0 |
| PERIVASCULAR; INFLAMMATION;
ACUTE | | | | | | 4 | | | | | | | | | 1 | 4.0 |
| METAPLASIA; OSSEOUS | | | | | | | | | | | | | | | 1 | |
| NOSE | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| OLFACTORY EPITHELIUM; ATROPHY | | | | | | | | | | | | | | | 1 | 1.0 |
| STENO'S GLAND; ATROPHY | | | | 2 | | | | 2 | | | | 2 | 1 | | 10 | 1.5 |
| FOREIGN BODY | | | | | | | | | | | | | | | 1 | |
| RESPIRATORY EPITHELIUM;
HYPERPLASIA | 1 | | 3 | 1 | 1 | | 1 | | | | | | | | 12 | 1.2 |
| NASOLACRIMAL DUCT;
INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | 1 | 1.0 |
| OLFACTORY EPITHELIUM;
INFLAMMATION; SUPPURATIVE | | | | 3 | | | | | | | | | | | 1 | 3.0 |
| RESPIRATORY EPITHELIUM;
INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | | | 1 | 2.0 |
| RESPIRATORY EPITHELIUM;
INFLAMMATION; SUPPURATIVE | | | | 2 | | | | | | | | | | | 2 | 1.5 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

| | | | | | | | | | | | | | | | | |
|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------|
| B6C3F1/N Mouse Male
0 ppm | | S | S | S | S | S | S | S | S | S | S | S | S | S | S | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | D | |
| | | 7 | 7 | 6 | 7 | 7 | 5 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | |
| | | 3 | 3 | 2 | 3 | 3 | 2 | 3 | 2 | 5 | 0 | 3 | 3 | 3 | 3 | |
| | | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 9 | 7 | 6 | 0 | 0 | 0 | 0 | |
| 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 | 0 | 0 | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | *TOTALS |
| OLFACTORY EPITHELIUM;
METAPLASIA; RESPIRATORY | | 1 | | | | | | | | | | | | | 2 | 1.0 |
| RESPIRATORY EPITHELIUM;
METAPLASIA; SQUAMOUS | | | | | | | | | | | | | | | 1 | 1.0 |
| TRACHEA | | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | |
| EYE | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| CORNEA; HYPERPLASIA; SQUAMOUS | | | | | | | | | | | | | | | 1 | 1.0 |
| HARDERIAN GLAND | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| HYPERPLASIA | | 4 | | | | | | | | | | | | | 2 | 4.0 |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | 1 | 4.0 |

| Male: Core Animals | | | | | | | | | | | | | | | | |
|--|-----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----|---------|--------|
| B6C3F1/N Mouse Male
0 ppm | DAY ON TEST | S
D
7
3
1 | S
D
7
3
0 | S
D
6
2
1 | S
D
7
3
0 | S
D
7
3
0 | S
D
5
2
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| | ANIMAL ID | | | | | | | | | | | | | | *TOTALS | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | |
| KIDNEY | + + + + + + + + + + + + + + | | | | | | | | | | | | | 49 | | |
| CHRONIC PROGRESSIVE
NEPHROPATHY | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | | | | 1 | 1 | 40 | 1.3 |
| RENAL TUBULE; CYST | | | | | | | | | | | | | | | 7 | |
| PELVIS; DILATION | | | | | | | | | | | | | | | 4 | 1.5 |
| FIBROSIS | | | | | | | | | | | | | | | 1 | 3.0 |
| PAPILLA, EPITHELIUM; HYPERPLASIA | | | | | | | | | | | | | | | 1 | 2.0 |
| INFARCT | | | | | | | | | | | | | | | 2 | 2.0 |
| PELVIS; INFLAMMATION; CHRONIC-
ACTIVE | | | | | | | | | | | | | | | 1 | 3.0 |
| PELVIS; INFLAMMATION;
SUPPURATIVE | | | | | | | | | | | | | | | 3 | 3.3 |
| PAPILLA; MINERAL | | | | | | | | | | | | | | | 1 | |
| URINARY BLADDER | + + + + + + + + + + + + + + | | | | | | | | | | | | | 48 | | |
| UROTHELIUM; HYPERPLASIA | | | | | | | | | | | | | | | 1 | 4.0 |
| INFILTRATION CELLULAR;
LYMPHOCYTE | | | | | | | | | | | | | | | 1 | 1.0 |
| INFILTRATION CELLULAR; MIXED CELL | | | | | | | | | | | | | | | 1 | 1.0 |
| INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | | | 3 | 3.3 |

| Male: Core Animals | | |
|--------------------------------|-------------|-----------|
| B6C3F1/N Mouse Male
100 ppm | DAY ON TEST | ANIMAL ID | S | D | S | D | S | D | S | D | S | D | S | D | S | D | S | D | S | D | S | D | S | D | S | D | S | D | S | D | | | |
| | | | 6 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 6 | 5 | 5 | 7 | 4 | 5 | 6 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 5 | 6 | |
| | | | 0 | 2 | 5 | 3 | 3 | 8 | 2 | 3 | 2 | 2 | 6 | 2 | 3 | 0 | 0 | 1 | 3 | 3 | 4 | 9 | 3 | 2 | 2 | 3 | 3 | 2 | 9 | 4 | 2 | 1 | 0 |
| | | | 9 | 9 | 4 | 0 | 1 | 0 | 9 | 1 | 9 | 5 | 9 | 0 | 9 | 6 | 9 | 1 | 2 | 0 | 9 | 0 | 9 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | 0 | | |
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| | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | |
| ALIMENTARY SYSTEM | | |
| ESOPHAGUS | | | + | | | |
| INTESTINE, LARGE, CECUM | | | + | | | |
| INTESTINE, LARGE, COLON | | | + | | | |
| INTESTINE, LARGE, RECTUM | | | + | | | |
| INTESTINE, SMALL, DUODENUM | | | + | | | |
| INTESTINE, SMALL, ILEUM | | | + | | | |
| INTESTINE, SMALL, JEJUNUM | | | + | | | |
| MESENTERY | | | + | |
| ADIPOSE TISSUE; NECROSIS | | | X | |
| PANCREAS | | | + | | | |
| SALIVARY GLAND | | | + | | | |
| STOMACH, FORESTOMACH | | | + | + | + | + | + | + | + | + | + | + | + | + | + | N | + | + | + | + | + | + | + | + | + | + | + | + | + | + | | | |
| EPITHELIUM; HYPERPLASIA; FOCAL | | | 1 | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | |
| STOMACH, GLANDULAR | | | + | | | |
| EROSION | | | 1 | |

Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Final

Date Report Requested: 08/08/2024

Time Report Requested: 08:59:43

Lab: Battelle with EPL

Male: Core Animals

| B6C3F1/N Mouse Male
100 ppm | | DAY ON TEST | | ANIMAL ID | | |
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CARDIOVASCULAR SYSTEM

[illegible]

ENDOCRINE SYSTEM

[illegible]

GENERAL BODY SYSTEM

CAVITY + +

HEMATOPOIETIC SYSTEM

[illegible]

| | | | Male: Core Animals | |
|--------------------------------|-------------|-----------|--------------------|
| B6C3F1/N Mouse Male
100 ppm | DAY ON TEST | ANIMAL ID | S | S | | | |
| | | | D | D | | |
| | | | 6 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 5 | 5 | 7 | 4 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | | |
| | | | 0 | 2 | 5 | 3 | 3 | 8 | 2 | 3 | 2 | 6 | 2 | 3 | 0 | 0 | 1 | 3 | 3 | 4 | 9 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 3 | 9 | 7 | 2 | 9 | 0 | 0 | 3 | 2 | 3 | 2 |
| | | | 9 | 9 | 4 | 0 | 1 | 0 | 9 | 1 | 9 | 5 | 9 | 0 | 9 | 6 | 9 | 1 | 2 | 0 | 9 | 0 | 9 | 9 | 0 | 0 | 0 | 1 | 9 | 0 | 0 | 4 | 2 | 1 | 0 | 0 | 0 | | |
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| | | | 0 | 0 | | | |
| | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| HEPATOBIILIARY SYSTEM | | | |
| GALLBLADDER | | | + | + | | |
| EPITHELIUM; HYPERPLASIA | | | 1 |
| LIVER | | | + | + | | |
| BASOPHILIC FOCUS | | | X |
| CLEAR CELL FOCUS; MULTIPLE | | | X |
| CLEAR CELL FOCUS | | | X |
| EOSINOPHILIC FOCUS; MULTIPLE | | | X |
| EOSINOPHILIC FOCUS | | | X |
| FATTY CHANGE; DIFFUSE | | | 1 |
| FATTY CHANGE; FOCAL | | | 1 |
| INFLAMMATION; FOCAL | | | 1 |
| MIXED CELL FOCUS; MULTIPLE | | | X |
| MIXED CELL FOCUS | | | X |
| MULTINUCLEATED HEPATOCYTE | | | 1 |
| NECROSIS; MULTIFOCAL | | | 4 |
| NECROSIS | | | 4 |
| TENSION LIPIDOSIS | | | 1 |

| | | | Male: Core Animals | | |
|--------------------------------|--|--|-----------------------|-------------|
| B6C3F1/N Mouse Male
100 ppm | | | | |
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| | | | Male: Core Animals | |
|--|-------------|-----------|--------------------|
| B6C3F1/N Mouse Male
100 ppm | DAY ON TEST | ANIMAL ID | S | S | |
| | | | D | D | |
| | | | 6 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 5 | 5 | 7 | 4 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | |
| | | | 0 | 2 | 5 | 3 | 3 | 8 | 2 | 3 | 2 | 6 | 2 | 3 | 0 | 0 | 1 | 3 | 3 | 4 | 9 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 9 | 7 | 2 | 9 | 0 | |
| | | | 9 | 9 | 4 | 0 | 1 | 0 | 9 | 1 | 9 | 5 | 9 | 0 | 9 | 6 | 9 | 1 | 2 | 0 | 9 | 0 | 9 | 9 | 0 | 0 | 9 | 1 | 9 | 4 | 2 | 1 | 0 | |
| | | | 0 | 0 | |
| | | | 0 | 0 | |
| | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | |
| REPRODUCTIVE SYSTEM | | | |
| EPIDIDYMIS | | | + | + | | |
| DUCT, BILATERAL; ATROPHY | | | | 1 | | | 2 | | | 1 | | | | | 1 | | 3 | 2 | | | | | | | | | | | | | | | | |
| DUCT, BILATERAL; EXFOLIATED GERM CELL | | | | | | | 2 | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | |
| DUCT; EXFOLIATED GERM CELL | | | |
| BILATERAL; HYOSPERMIA | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | |
| INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| INFLAMMATION; GRANULOMATOUS | | | |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | | |
| MAMMARY GLAND | | | + | + | + | N | + | + | + | + | + | N | + | + | N | + | + | N | + | + | + | N | + | + | + | N | + | + | + | + | + | + | + | |
| PREPUTIAL GLAND | | | + | + | N | + | + | + | + | + |
| DUCT; DILATION | | | |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | 2 | | | | | | | | | | 2 | 1 | | | | 3 | | | 1 | |
| PROSTATE | | | + | + | |
| ACINUS; ATROPHY | | | | | | | | | | | | 3 | |
| INFLAMMATION; SUPPURATIVE | | | | | | 3 | | | | | | | | | 3 | | | | | | | | | | | | | | 3 | | | | | |
| SEMINAL VESICLE | | | + | + | |
| ATROPHY | | | | | | | | | | | | 4 | |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | 3 | | | 3 | | | | | | | | | | | | | | | | |
| TESTIS | | | + | + | |
| GERMINAL EPITHELIUM; ATROPHY | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| GERMINAL EPITHELIUM, BILATERAL; DEGENERATION | | | | 2 | 2 | | 2 | | | 3 | | | | | | | | 3 | | | | | | | | | | | | | | | | |

| Male: Core Animals | | | |
|--|-------------|-----------|---------|
| B6C3F1/N Mouse Male
100 ppm | DAY ON TEST | ANIMAL ID | S | S | | |
| | | | D | D | |
| | | | 6 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 5 | 5 | 7 | 4 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | |
| | | | 0 | 2 | 5 | 3 | 3 | 8 | 2 | 3 | 2 | 6 | 2 | 3 | 0 | 0 | 1 | 3 | 3 | 4 | 9 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 9 | 9 | 4 | 2 | 3 | 2 |
| | | | 9 | 9 | 4 | 0 | 1 | 0 | 9 | 1 | 9 | 5 | 9 | 0 | 9 | 6 | 9 | 1 | 2 | 0 | 9 | 0 | 9 | 9 | 9 | 0 | 0 | 9 | 1 | 9 | 0 | 9 | 0 | 9 |
| | | | 0 | 0 | | |
| | | | 0 | 0 | | |
| | | | 0 | 0 | | |
| | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| RESPIRATORY SYSTEM | | | |
| LARYNX | | | + | + | | |
| FOREIGN BODY | | | |
| INFILTRATION CELLULAR;
MONONUCLEAR CELL | | | 3 |
| GLAND; INFLAMMATION;
SUPPURATIVE | | | 1 |
| LUNG | | | + | + | | |
| ALVEOLAR/BRONCHIOLAR,
EPITHELIUM; HYPERPLASIA | | | 3141114 | |
| ALVEOLUS; INFILTRATION CELLULAR;
HISTIOCYTE | | | 2 |
| PERIVASCULAR; INFILTRATION
CELLULAR; MONONUCLEAR CELL | | | 111 |
| THROMBUS | | | X |
| NOSE | | | + | + | | |
| CONCRETION | | | 1 |
| FOREIGN BODY | | | X X |
| RESPIRATORY EPITHELIUM;
HYPERPLASIA | | | 1111211 | |
| RESPIRATORY EPITHELIUM;
INFLAMMATION; SUPPURATIVE | | | 2 |
| OLFACTORY EPITHELIUM;
METAPLASIA; RESPIRATORY | | | 11111 |
| TRACHEA | | | A | + | + | + | + | A | + | | |

| Male: Core Animals | | |
|--------------------------------|-------------|-----------|
| B6C3F1/N Mouse Male
100 ppm | DAY ON TEST | ANIMAL ID | S | | | |
| | | | D | | | |
| | | | 6 | 7 | 5 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 6 | 5 | 5 | 7 | 4 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 5 | 6 | 7 | 7 | | |
| | | | 0 | 2 | 5 | 3 | 3 | 8 | 2 | 3 | 2 | 6 | 2 | 3 | 0 | 0 | 1 | 3 | 3 | 4 | 9 | 3 | 2 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 9 | 7 | 2 | 9 | 0 | 3 | 2 | 3 | |
| | | | 9 | 9 | 4 | 0 | 1 | 0 | 9 | 1 | 9 | 5 | 9 | 0 | 9 | 6 | 9 | 1 | 2 | 0 | 9 | 0 | 9 | 9 | 0 | 9 | 0 | 9 | 0 | 9 | 1 | 9 | 0 | 4 | 2 | 1 | 0 | 0 | 9 |
| | | | 0 | | | |
| | | | 0 | | | |
| | | | 0 | | | |
| | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| SPECIAL SENSES SYSTEM | | |
| EYE | | | + | | |
| LENS; CATARACT | | | | | | | | | 1 | | | | 1 | |
| CORNEA; INFLAMMATION; ACUTE | | |
| HARDERIAN GLAND | | | + | |
| HYPERPLASIA | | | 4 | 3 | | | | | | | | | 3 | |
| INFLAMMATION; SUPPURATIVE | | |

| Male: Core Animals | | |
|--|--|-----------------------|
| B6C3F1/N Mouse Male
100 ppm | | |
| | | |
| | | |
| | | |
| | | |
| DAY ON TEST | | S
D
6
0
9 | S
D
7
2
9 | S
D
5
5
4 | S
D
7
7
3 | S
D
7
7
1 | S
D
6
8
0 | S
D
7
2
9 | S
D
7
7
1 | S
D
7
2
9 | S
D
5
6
5 | S
D
7
2
9 | S
D
6
3
0 | S
D
5
5
6 | S
D
7
7
9 | S
D
4
1
1 | S
D
3
3
2 | S
D
3
4
0 | S
D
5
6
9 | S
D
6
7
3 | S
D
7
2
9 | S
D
7
7
0 | S
D
7
7
3 | S
D
7
7
0 | S
D
7
7
2 | S
D
7
7
3 | S
D
5
3
9 | S
D
6
7
4 | S
D
7
2
2 | S
D
5
9
9 | S
D
6
6
7 | S
D
7
7
4 | S
D
5
9
1 | S
D
6
0
0 | S
D
7
3
0 | S
D
7
7
2 | S
D
7
7
9 | |
| ANIMAL ID | | 0
0
0
5
1 | 0
0
0
5
2 | 0
0
0
5
3 | 0
0
0
5
4 | 0
0
0
5
5 | 0
0
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5
6 | 0
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7 | 0
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8 | 0
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9 | 0
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1 | 0
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2 | 0
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3 | 0
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4 | 0
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5 | 0
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7 | 0
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8 | 0
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9 | 0
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1 | 0
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2 | 0
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3 | 0
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4 | 0
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5 | 0
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6 | 0
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7 | 0
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9 | 0
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1 | 0
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8
2 | 0
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8
3 | 0
0
0
8
4 | 0
0
0
8
5 | 0
0
0
8
6 | 0
0
0
8
7 |
| URINARY SYSTEM | | |
| KIDNEY | | + | |
| BACTERIA | | | | | X | |
| CHRONIC PROGRESSIVE
NEPHROPATHY | | | 2 | | | 2 | | | 3 | | | 2 | 1 | 2 | 1 | 2 | 1 | | 1 | | | 1 | | | 1 | 1 | 1 | 1 | 1 | | | 4 | 1 | 1 | 1 | 1 | 1 | 2 |
| RENAL TUBULE; CYST | | | X |
| PELVIS; DILATION | | | 4 | | | | | | | |
| HEMORRHAGE | | | 3 | | | | | | |
| INFARCT | | | | | | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| PELVIS; INFLAMMATION;
SUPPURATIVE | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | 4 | | | | | | | |
| RENAL TUBULE; INFLAMMATION;
SUPPURATIVE | | | | | 4 | |
| CYTOPLASMIC, RENAL TUBULE;
VACUOLATION | | | | | 2 | | | | | | 1 | 1 | |
| URINARY BLADDER | | A | + | + | + | + | A | + | + | + | + | + | + | + | A | + | + | A | + | A | + | + | + | + | + | + | + | + | + | I | A | + | + | + | + | + | + | + |
| DILATION | | | 4 | | | | |
| UROTHELIUM; HYPERPLASIA | | | | | | | | 1 | | | | | | | 1 | | | | | 1 | | | | | | | 1 | | | | | 1 | | | | | | |
| INFILTRATION CELLULAR;
LYMPHOCYTE | | | | | | | | | 1 | |
| INFLAMMATION; CHRONIC-ACTIVE | | |
| INFLAMMATION; SUPPURATIVE | | | | | 2 | | | | | | | | | | 2 | |
| UROTHELIUM; ULCER | | | | | 2 | | | | | | | | | | 2 | |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

| | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|----|---------|-----|--|
| B6C3F1/N Mouse Male
100 ppm | | DAY ON TEST | | | | | | | | | | | | | | *TOTALS | | |
| | | S | S | S | S | S | S | S | S | S | S | S | S | S | S | | | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| | | 3 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | | | |
| | | 6 | 3 | 5 | 4 | 2 | 0 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | | | |
| ANIMAL ID | | 5 | 1 | 5 | 7 | 9 | 2 | 0 | 0 | 0 | 9 | 0 | 0 | 6 | | | | |
| | | 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 | |
| | | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | | 0 | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | 0 | |
| ALIMENTARY SYSTEM | | | | | | | | | | | | | | | | | | |
| ESOPHAGUS | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| INTESTINE, LARGE, CECUM | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| INTESTINE, LARGE, COLON | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| INTESTINE, LARGE, RECTUM | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| INTESTINE, SMALL, DUODENUM | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| INTESTINE, SMALL, ILEUM | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| INTESTINE, SMALL, JEJUNUM | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| MESENTERY | | | | | | | | | | | | | | | | 1 | | |
| ADIPOSE TISSUE; NECROSIS | | | | | | | | | | | | | | | | 1 | | |
| PANCREAS | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| SALIVARY GLAND | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| STOMACH, FORESTOMACH | | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | | | |
| EPITHELIUM; HYPERPLASIA; FOCAL | | | | | | | | | | | | | | | | 2 | 2.5 | |
| STOMACH, GLANDULAR | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | | |
| EROSION | | | | | | | | | | | | | | | | 1 | 1.0 | |

| Male: Core Animals | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| B6C3F1/N Mouse Male
100 ppm | DAY ON TEST | S | S | S | S | S | S | S | S | S | S | S | S | S | S | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | D | |
| | | 3 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 |
| | | 6 | 3 | 5 | 4 | 2 | 0 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | |
| | ANIMAL ID | 5 | 1 | 5 | 7 | 9 | 2 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 6 | |
| | | 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 | |
| | | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | *TOTALS |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | |
| AORTA | | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| THROMBUS | | | | | | | | | | | | | | | | 1 |
| HEART | | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| CARDIOMYOPATHY | | | | 1 | | 2 | 2 | | 1 | 1 | | 2 | 1 | 1 | 1 | 29 1.2 |
| EPICARDIUM; INFLAMMATION;
SUPPURATIVE | | | | | | | | | | | | | | | | 1 2.0 |
| VALVE; INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | | 1 3.0 |
| VALVE; PIGMENT | | | | | | | | | | | | | | | | 1 2.0 |
| ATRIUM; THROMBUS | | | | | | | | | | | | | | | | 1 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | |
| ADRENAL GLAND | | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| INFARCT | | | | | | | | | | | | | | | | 1 4.0 |
| PARATHYROID GLAND | | + | N | N | + | N | + | + | + | + | + | + | + | + | N | 42 |
| PITUITARY GLAND | | N | + | + | + | + | + | + | + | + | + | + | + | + | | 45 |
| PARS DISTALIS; CYST | | | | | | | | | | | | X | | | | 1 |
| THYROID GLAND | | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| AMYLOID | | | | | | | | | | | | | | | | 1 |
| FOLLICLE; DEGENERATION | | | | | | | | | | | | | | | | 1 3.0 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | |
| CAVITY | | | | | | | | | | | | | | | | 2 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | |
| BONE MARROW | | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

B6C3F1/N Mouse Male
100 ppm

DAY ON TEST

ANIMAL ID

| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 3 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 |
| 6 | 3 | 5 | 4 | 2 | 0 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | |
| 5 | 1 | 5 | 7 | 9 | 2 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 6 | |
| 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 | |
| 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |

*TOTALS

HEPATOBIILIARY SYSTEM

GALLBLADDER

+ + + + + + + + + + + + +

50

EPITHELIUM; HYPERPLASIA

1 1.0

LIVER

+ + + + + + + + + + + + +

50

BASOPHILIC FOCUS

2

CLEAR CELL FOCUS; MULTIPLE

1

CLEAR CELL FOCUS

X

4

EOSINOPHILIC FOCUS; MULTIPLE

2

EOSINOPHILIC FOCUS

1

FATTY CHANGE; DIFFUSE

1 1

10 1.2

FATTY CHANGE; FOCAL

1 1.0

INFLAMMATION; FOCAL

2 1.0

MIXED CELL FOCUS; MULTIPLE

X

2

MIXED CELL FOCUS

X

4

MULTINUCLEATED HEPATOCYTE

1

1 1

11 1.3

NECROSIS; MULTIFOCAL

1 4.0

NECROSIS

3 2.7

TENSION LIPIDOSIS

2 1.0

| Male: Core Animals | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------|
| B6C3F1/N Mouse Male
100 ppm | DAY ON TEST | S | S | S | S | S | S | S | S | S | S | S | S | S | S | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | D | |
| | | 3 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | |
| | | 6 | 3 | 5 | 4 | 2 | 0 | 3 | 3 | 3 | 2 | 3 | 3 | 2 | | |
| | ANIMAL ID | 5 | 1 | 5 | 7 | 9 | 2 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 6 |
| | | 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 | |
| | | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | *TOTALS |
| IMMUNE SYSTEM | | | | | | | | | | | | | | | | |
| LYMPH NODE | | + | | | | | | | | | | | | | 2 | |
| LYMPH NODE, BRONCHIAL | | + | + | + | + | + | + | N | + | + | + | + | + | + | 45 | |
| LYMPH NODE, MANDIBULAR | | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| HYPERPLASIA; LYMPHOCYTE | | 3 | | | | | | | | | | | | | 1 | 3.0 |
| LYMPH NODE, MEDIASTINAL | | + | + | + | + | + | N | N | + | + | + | N | + | + | 44 | |
| EXTRAMEDULLARY HEMATOPOIESIS | | | | | | | | | | | | | | | 1 | 3.0 |
| LYMPH NODE, MESENTERIC | | N | + | N | + | + | + | + | + | + | + | + | + | + | 45 | |
| HYPERPLASIA; LYMPHOCYTE | | | | | | | | | | | | | | | 1 | 3.0 |
| SPLEEN | | N | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| EXTRAMEDULLARY HEMATOPOIESIS;
INCREASED | | | | | | | | | | | | | | | 6 | 3.2 |
| FIBROSIS | | | | | | | | | | | | | | | 1 | 2.0 |
| THYMUS | | + | + | N | N | + | N | + | + | + | + | + | + | + | 42 | |
| EXTRAMEDULLARY HEMATOPOIESIS | | | | | | | | | | | | | | | 1 | 3.0 |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | |
| SKIN | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| PENIS; INFLAMMATION; CHRONIC-
ACTIVE | | | | | | | | | | | | | | | 1 | 4.0 |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | 1 | 2.0 |
| PENIS; ULCER | | | | | | | | | | | | | | | 1 | 4.0 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

| B6C3F1/N Mouse Male
100 ppm | | | | | | | | | | | | | | | | | | |
|--------------------------------|--|-----------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|---------|--|--|
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| DAY ON TEST | | S
D
3
6
5 | S
D
7
3
1 | S
D
6
5
5 | S
D
6
4
7 | S
D
7
2
9 | S
D
6
0
2 | S
D
7
3
0 | S
D
7
3
0 | S
D
7
7
0 | S
D
7
2
9 | S
D
7
3
0 | S
D
7
3
0 | S
D
6
2
6 | | | | |
| ANIMAL ID | | 0
0
0
8
8 | 0
0
0
8
9 | 0
0
0
9
0 | 0
0
0
9
1 | 0
0
0
9
2 | 0
0
0
9
3 | 0
0
0
9
4 | 0
0
0
9
5 | 0
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9
6 | 0
0
0
9
7 | 0
0
0
9
8 | 0
0
0
9
9 | 0
0
0
9
0 | | | | |
| | | | | | | | | | | | | | | | | *TOTALS | | |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | | |
| BONE | | + | | | | | | | | | | | | | | 2 | | |
| FRACTURE | | | | | | | | | | | | | | | | 1 | | |
| BONE, FEMUR | | + + + + + + + + + + + + + + | | | | | | | | | | | | | | 50 | | |
| SKELETAL MUSCLE | | | | | | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | | |
| BRAIN | | + + + + + + + + + + + + + + | | | | | | | | | | | | | | 50 | | |
| CEREBELLUM; HEMORRHAGE | | | | | | | | | | | | | | | | 1 1.0 | | |
| NERVE | | | | | | | | | | | | | | | | 1 | | |
| NERVE, SCIATIC | | | | | | | | | | | | | | | | 1 | | |
| SPINAL CORD, LUMBAR | | | | | | | | | | | | | | | | 1 | | |
| HEMORRHAGE | | | | | | | | | | | | | | | | 1 3.0 | | |
| NECROSIS | | | | | | | | | | | | | | | | 1 3.0 | | |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

B6C3F1/N Mouse Male
100 ppm

DAY ON TEST

ANIMAL ID

| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 3 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 |
| 6 | 3 | 5 | 4 | 2 | 0 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | |
| 5 | 1 | 5 | 7 | 9 | 2 | 0 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 6 | |
| 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 | |
| 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | |

*TOTALS

REPRODUCTIVE SYSTEM

| | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| EPIDIDYMIS | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| DUCT, BILATERAL; ATROPHY | | | | | | | | | | | | | | | 6 | 1.7 |
| DUCT, BILATERAL; EXFOLIATED GERM CELL | | | | | | | | | | | | | | | 2 | 1.5 |
| DUCT; EXFOLIATED GERM CELL | | | | 1 | | | | | | | 1 | 1 | | | 3 | 1.0 |
| BILATERAL; HYOSPERMIA | | | | | | | | | | | | | | | 1 | 3.0 |
| INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | | | 1 | 2.0 |
| INFLAMMATION; GRANULOMATOUS | | | | | 4 | | | | | | | | | | 1 | 4.0 |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | 1 | 4.0 |
| MAMMARY GLAND | N | + | + | + | + | + | + | + | + | + | N | + | + | | 41 | |
| PREPUTIAL GLAND | + | + | + | + | + | + | + | + | + | + | + | + | + | | 49 | |
| DUCT; DILATION | | | | | | 4 | | | | | | | | | 1 | 4.0 |
| INFLAMMATION; SUPPURATIVE | | 1 | | 3 | | | | | 3 | | | | | | 8 | 2.0 |
| PROSTATE | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | |
| ACINUS; ATROPHY | | | | | | | | | | | | | | | 1 | 3.0 |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | 3 | 3.0 |
| SEMINAL VESICLE | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | |
| ATROPHY | | | | | | | | | | | | | | | 1 | 4.0 |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | 2 | 3.0 |
| TESTIS | + | + | + | + | + | + | + | + | + | + | + | + | + | | 49 | |
| GERMINAL EPITHELIUM; ATROPHY | | | | | | | | | | | | | | | 1 | 2.0 |
| GERMINAL EPITHELIUM, BILATERAL; DEGENERATION | | | | | | | | | | | | | | | 5 | 2.4 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

| B6C3F1/N Mouse Male
100 ppm | | | | | | | | | | | | | | | | | | |
|---|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|--|--|---|-----|
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| DAY ON TEST | | S
D
3
6
5 | S
D
7
3
1 | S
D
6
5
5 | S
D
6
4
7 | S
D
7
2
9 | S
D
6
0
2 | S
D
7
3
0 | S
D
7
3
0 | S
D
7
3
0 | S
D
7
2
9 | S
D
7
3
0 | S
D
7
3
0 | S
D
6
2
6 | | | | |
| ANIMAL ID | | 0
0
0
8
8 | 0
0
0
8
9 | 0
0
0
9
0 | 0
0
0
9
1 | 0
0
0
9
2 | 0
0
0
9
3 | 0
0
0
9
4 | 0
0
0
9
5 | 0
0
0
9
6 | 0
0
0
9
7 | 0
0
0
9
8 | 0
0
0
9
9 | 0
0
0
9
0 | | | | |
| | | *TOTALS | | | | | | | | | | | | | | | | |
| GERMINAL EPITHELIUM;
DEGENERATION | | | | | | | | | | | | | | | | | 4 | 1.0 |
| RETE TESTIS, BILATERAL; DILATION | | | | | | | | | | | | | | | | | 1 | 1.0 |
| SEMINIFEROUS TUBULE, BILATERAL;
DILATION | | | | | | | | | | | | | | | | | 1 | 2.0 |
| SEMINIFEROUS TUBULE; DILATION | | | | | | | | | | | | | | | | | 1 | 2.0 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

B6C3F1/N Mouse Male
100 ppm

DAY ON TEST

ANIMAL ID

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 3 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 |
| 6 | 3 | 5 | 4 | 2 | 0 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | |
| 5 | 1 | 5 | 7 | 9 | 2 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 6 | |
| 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 | |
| 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |

*TOTALS

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| LARYNX | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| FOREIGN BODY | X | | | | | | | | | | | | | 1 |
| INFILTRATION CELLULAR;
MONONUCLEAR CELL | | | | | | | | | | | | | | 1 3.0 |
| GLAND; INFLAMMATION;
SUPPURATIVE | | | | | | | | | | | | | | 1 1.0 |
| LUNG | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| ALVEOLAR/BRONCHIOLAR,
EPITHELIUM; HYPERPLASIA | | 1 | | | | | 2 | | | 4 | | | | 10 2.2 |
| ALVEOLUS; INFILTRATION CELLULAR;
HISTIOCYTE | | | | | | | | | | | | | | 1 2.0 |
| PERIVASCULAR; INFILTRATION
CELLULAR; MONONUCLEAR CELL | | | | | | | | | | | | | | 3 1.0 |
| THROMBUS | | | | | | | | | | | | | | 1 |
| NOSE | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| CONCRETION | | | | | | | | | | | | | | 1 1.0 |
| FOREIGN BODY | X | | | | | | | | | | | | | 3 |
| RESPIRATORY EPITHELIUM;
HYPERPLASIA | | | | | 1 | | 1 | | | | | 1 | | 12 1.1 |
| RESPIRATORY EPITHELIUM;
INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | 1 2.0 |
| OLFACTORY EPITHELIUM;
METAPLASIA; RESPIRATORY | | | | 1 | | | | 1 | | | | | | 7 1.0 |
| TRACHEA | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

| | | | | | | | | | | | | | | | | | |
|--------------------------------|--|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----|---------|-----|
| B6C3F1/N Mouse Male
100 ppm | | DAY ON TEST | | | | | | | | | | | | | | *TOTALS | |
| | | S
D
3
6
5 | S
D
7
3
1 | S
D
6
5
5 | S
D
6
4
7 | S
D
7
2
9 | S
D
6
0
2 | S
D
7
3
0 | S
D
7
3
0 | S
D
7
2
9 | S
D
7
3
0 | S
D
7
3
0 | S
D
7
3
0 | S
D
6
2
6 | | | |
| | | ANIMAL ID | | | | | | | | | | | | | | | |
| | | 0
0
0
8
8 | 0
0
0
8
9 | 0
0
0
9
0 | 0
0
0
9
1 | 0
0
0
9
2 | 0
0
0
9
3 | 0
0
0
9
4 | 0
0
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9
5 | 0
0
0
9
6 | 0
0
0
9
7 | 0
0
0
9
8 | 0
0
0
9
9 | 0
0
0
9
0 | | | |
| | | | | | | | | | | | | | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | |
| EYE | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| LENS; CATARACT | | | | | | | | | | | | | | | | 4 | 1.0 |
| CORNEA; INFLAMMATION; ACUTE | | | | | | | | | | | | | | | | 1 | 1.0 |
| HARDERIAN GLAND | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| HYPERPLASIA | | | | | | | | | | | | | | | | 8 | 3.3 |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | | 1 | 2.0 |

| Male: Core Animals | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| B6C3F1/N Mouse Male
100 ppm | DAY ON TEST | S | S | S | S | S | S | S | S | S | S | S | S | S | S | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | D | |
| | | 3 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | |
| | | 6 | 3 | 5 | 4 | 2 | 0 | 3 | 3 | 3 | 2 | 3 | 3 | 3 | 2 | |
| | ANIMAL ID | 5 | 1 | 5 | 7 | 9 | 2 | 0 | 0 | 0 | 9 | 0 | 0 | 0 | 6 | |
| | | 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 | |
| | | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | *TOTALS |
| URINARY SYSTEM | | | | | | | | | | | | | | | | |
| KIDNEY | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| BACTERIA | | | | | | | | | | | | | | | | 1 |
| CHRONIC PROGRESSIVE
NEPHROPATHY | | | 1 | 1 | 2 | 2 | 1 | 3 | | 1 | 1 | | 1 | | | 33 1.5 |
| RENAL TUBULE; CYST | | | | | | | | | | | | | | | | 1 |
| PELVIS; DILATION | | | | | | | | | | | | | | | | 1 4.0 |
| HEMORRHAGE | | | | | | | | | | | | | | | | 1 3.0 |
| INFARCT | | | | | | | | | | | | | | | | 1 2.0 |
| PELVIS; INFLAMMATION;
SUPPURATIVE | | | | | | | | | | | | | 3 | | | 3 3.7 |
| RENAL TUBULE; INFLAMMATION;
SUPPURATIVE | | | | | | | | | | | | | | | | 1 4.0 |
| CYTOPLASMIC, RENAL TUBULE;
VACUOLATION | | 2 | | | | | | | | | | | | | | 4 1.5 |
| URINARY BLADDER | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 43 |
| DILATION | | | | | | | | | | | | | | | | 1 4.0 |
| UROTHELIUM; HYPERPLASIA | | | 1 | | | 1 | | | | | | | | | | 7 1.0 |
| INFILTRATION CELLULAR;
LYMPHOCYTE | | | | | | | | 1 | | | | | | | | 2 1.0 |
| INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | 1 | | | 1 1.0 |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | | 2 2.0 |
| UROTHELIUM; ULCER | | | | | | | | | | | | | | | | 2 2.0 |

| | | | Male: Core Animals | |
|--|-------------|-----------|--------------------|
| B6C3F1/N Mouse Male
200 ppm | DAY ON TEST | ANIMAL ID | S | S | | |
| | | | D | D | |
| | | | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 1 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | |
| | | | 2 | 3 | 1 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 9 | 3 | 2 | 2 | 3 | 2 | 2 | 6 | 3 | 2 | 3 | 3 | 2 | 3 | 8 | 3 | 3 | 2 | 5 |
| | | | 9 | 1 | 6 | 9 | 0 | 0 | 9 | 0 | 2 | 1 | 1 | 9 | 4 | 0 | 4 | 9 | 0 | 7 | 9 | 0 | 9 | 0 | 2 | 3 | 8 | 9 | 1 | 0 | 8 | 9 | 5 | 3 |
| | | | 0 | 0 | | |
| | | | 0 | 0 | | |
| | | | 1 | 1 | | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| ALIMENTARY SYSTEM | | | |
| ESOPHAGUS | | | + | + | | |
| INTESTINE, LARGE, CECUM | | | + | + | N | | |
| INTESTINE, LARGE, COLON | | | + | + | | |
| INFLAMMATION; CHRONIC | | | |
| INTESTINE, LARGE, RECTUM | | | + | + | | |
| INTESTINE, SMALL, DUODENUM | | | + | + | | |
| INTESTINE, SMALL, ILEUM | | | + | + | N | | | |
| INTESTINE, SMALL, JEJUNUM | | | + | + | | |
| MESENTERY | | | |
| ADIPOSE TISSUE; NECROSIS | | | |
| PANCREAS | | | + | + | | |
| DUCT; INFLAMMATION; CHRONIC-
ACTIVE | | | 2 |
| SALIVARY GLAND | | | + | + | | |
| INFILTRATION CELLULAR;
MONONUCLEAR CELL | | | |
| STOMACH, FORESTOMACH | | | + | + | | |
| EPITHELIUM; HYPERPLASIA; DIFFUSE | | | |
| EPITHELIUM; HYPERPLASIA; FOCAL | | | 1 |
| STOMACH, GLANDULAR | | | 3 |
| | | | + | + | | |

Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Final

Date Report Requested: 08/08/2024

Time Report Requested: 08:59:43

Lab: Battelle with EPL

Male: Core Animals

| B6C3F1/N Mouse Male
200 ppm | | |
|--------------------------------|--|-----------------------|
| | | |
| | | |
| | | |
| | | |
| DAY ON TEST | | S
D
7
2
9 | S
D
7
3
1 | S
D
7
7
6 | S
D
7
7
9 | S
D
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9 | S
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7
3 | S
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6
7
8 | S
D
7
7
0 | S
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7
7
2 | S
D
1
8
5 | S
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| ANIMAL ID | | 0
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3 | 0
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6 | 0
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7 |

CARDIOVASCULAR SYSTEM

[illegible]

Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Final

Date Report Requested: 08/08/2024

Time Report Requested: 08:59:43

Lab: Battelle with EPL

Male: Core Animals

| B6C3F1/N Mouse Male
200 ppm | | S
D | S
D | S
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|--------------------------------|--|--------|---|
| DAY ON TEST | | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 1 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | 2 | 3 | 1 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 9 | 3 | 2 | 6 | 3 | 2 | 3 | 2 | 8 | 3 | 2 | 3 | 8 | 0 | 2 | 8 | 2 | 7 | 4 | 7 |
| ANIMAL ID | | 9 | 1 | 6 | 9 | 0 | 0 | 9 | 0 | 2 | 1 | 1 | 9 | 9 | 4 | 0 | 2 | 9 | 0 | 9 | 7 | 0 | 9 | 0 | 3 | 8 | 9 | 1 | 1 | 0 | 8 | 9 | 5 |
| | | 0 | 0 |
| | | 1 | 1 |
| | | 0 | 0 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 |

ENDOCRINE SYSTEM

[illegible]

GENERAL BODY SYSTEM

[illegible]

| Male: Core Animals | |
|--------------------------------|-------------|
| B6C3F1/N Mouse Male
200 ppm | DAY ON TEST | S | | |
| | | D | | |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 1 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | | |
| | | 2 | 3 | 1 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 9 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 8 | 3 | 0 | 2 | 8 | 2 | 3 | |
| | | 9 | 1 | 6 | 9 | 0 | 0 | 9 | 0 | 2 | 1 | 1 | 9 | 9 | 4 | 0 | 4 | 9 | 0 | 9 | 7 | 0 | 9 | 0 | 8 | 9 | 1 | 3 | 1 | 1 | 0 | 8 | 9 | 5 | 9 | 1 |
| | ANIMAL ID | 0 | |
| | | 0 | |
| | | 1 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 |
| HEMATOPOIETIC SYSTEM | |
| BONE MARROW | | + | |
| HEPATOBIILIARY SYSTEM | |
| GALLBLADDER | | + | |
| LIVER | | + | |
| BASOPHILIC FOCUS | | X | |
| CLEAR CELL FOCUS; MULTIPLE | | X | |
| CLEAR CELL FOCUS | | X | |
| EOSINOPHILIC FOCUS; MULTIPLE | | X | |
| EOSINOPHILIC FOCUS | | X | |
| FATTY CHANGE; DIFFUSE | | 1 | |
| INFLAMMATION; CHRONIC-ACTIVE | | 3 | |
| INFLAMMATION; FOCAL | | 1 | |
| MIXED CELL FOCUS | | X | |
| MULTINUCLEATED HEPATOCYTE | | 1 | |
| NECROSIS | | 2 | |
| TENSION LIPIDOSIS | | 1 | |

| | | | Male: Core Animals | |
|--|--|--|-----------------------|
| B6C3F1/N Mouse Male
200 ppm | | | |
| | | | |
| | | | DAY ON TEST | |
| | | | ANIMAL ID | |
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6 | 0
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7 |
| IMMUNE SYSTEM | | | |
| LYMPH NODE | | | |
| LYMPH NODE, BRONCHIAL | | | |
| LYMPH NODE, MANDIBULAR | | | |
| HYPERPLASIA; LYMPHOCYTE | | | |
| PIGMENT | | | |
| LYMPH NODE, MEDIASTINAL | | | |
| INFILTRATION CELLULAR; HISTIOCYTE | | | |
| LYMPH NODE, MESENTERIC | | | |
| ERYTHROPHAGOCYTOSIS | | | |
| HYPERPLASIA; LYMPHOCYTE | | | |
| INFILTRATION CELLULAR; HISTIOCYTE | | | |
| SPLEEN | | | |
| EXTRAMEDULLARY HEMATOPOIESIS;
INCREASED | | | |
| THYMUS | | | |
| INTEGUMENTARY SYSTEM | | | |
| SKIN | | | |
| FIBROSIS | | | |
| EPITHELIAL CELL; HYPERPLASIA | | | |
| INFLAMMATION; CHRONIC-ACTIVE | | | |
| INFLAMMATION; SUPPURATIVE | | | |
| PENIS; ULCER | | | |
| ULCER | | | |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

| B6C3F1/N Mouse Male
200 ppm | | DAY ON TEST | |
|--|--|-------------|
| | | ANIMAL ID |
| | | |
| | | |
| | | |
| GERMINAL EPITHELIUM;
DEGENERATION | | 1 | 1 | | | | | 2 | 1 | | | | | | | | | | | | | | | | | 2 | | 1 | 2 | |
| SEMINIFEROUS TUBULE, BILATERAL;
DILATION | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | |
| SEMINIFEROUS TUBULE; DILATION | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| RESPIRATORY SYSTEM | | |
| LARYNX | | + | + |
| POLYARTERITIS NODOSA | | |
| LUNG | | + | + |
| ALVEOLAR/BRONCHIOLAR,
EPITHELIUM; HYPERPLASIA | | 1 | | 4 | 1 | 2 | | | | | 1 | 1 | 4 | | | | | 2 | 2 | | | 3 | 2 | | | 3 | 1 | 4 | | 4 |
| POLYARTERITIS NODOSA | | |
| NOSE | | + | + |
| STENO'S GLAND; ATROPHY | | | 1 | | | 2 | | | | | |
| RESPIRATORY EPITHELIUM, GLAND;
DILATION | | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | |
| RESPIRATORY EPITHELIUM;
HYPERPLASIA | | | | | | 1 | | | 1 | | 1 | | 1 | | | | | 2 | 1 | | | | | 2 | | | | | | |
| RESPIRATORY EPITHELIUM;
INFLAMMATION; SUPPURATIVE | | | | 1 | | | | | | | | | | | | | | | | | | | | 1 | | | 1 | | | |
| OLFACTORY EPITHELIUM;
METAPLASIA; RESPIRATORY | | | | | | | | | | | | | | | | | | | 1 | | | | | 1 | | | | | 1 | |
| RESPIRATORY EPITHELIUM;
METAPLASIA; SQUAMOUS | | | | 1 | |
| TRACHEA | | + | + | A | + | + |

| Male: Core Animals | | |
|-----------------------------------|-------------|-----------|
| B6C3F1/N Mouse Male
200 ppm | DAY ON TEST | ANIMAL ID | S | | | | |
| | | | D | | | |
| | | | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 1 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | | | |
| | | | 2 | 3 | 1 | 2 | 3 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 2 | 9 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 2 | 3 | 8 | 3 | 0 | 2 | 8 | 2 | 3 | 3 | |
| | | | 9 | 1 | 6 | 9 | 0 | 0 | 0 | 2 | 1 | 1 | 0 | 0 | 0 | 4 | 9 | 0 | 9 | 0 | 7 | 0 | 9 | 0 | 8 | 9 | 1 | 1 | 0 | 8 | 9 | 5 | 9 | 1 | 0 | | | |
| | | | 0 | | | | |
| | | | 0 | | | | |
| | | | 1 | | | | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | | | | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | | | | |
| SPECIAL SENSES SYSTEM | | |
| EYE | | | + | A | + | + | + | + | + | + |
| LENS; CATARACT | | | 1 | |
| CORNEA; HYPERPLASIA; SQUAMOUS | | | 1 | |
| HARDERIAN GLAND | | | + | |
| BILATERAL; HYPERPLASIA | | | 4 | |
| HYPERPLASIA | | | 3 | |
| URINARY SYSTEM | | |
| KIDNEY | | | + | |
| CHRONIC PROGRESSIVE NEPHROPATHY | | | 2 | 1 | 3 | |
| PELVIS; INFLAMMATION; SUPPURATIVE | | | 4 | |
| PAPILLA; MINERAL | | | 2 | |
| URINARY BLADDER | | | + | + | + | + | + | + | A | + | A | + | + | + | + | + | + |
| UROTHELIUM; HYPERPLASIA | | | 1 | |
| INFILTRATION CELLULAR; LYMPHOCYTE | | | 1 | |
| INFLAMMATION; CHRONIC-ACTIVE | | | 4 | |

| Male: Core Animals | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| B6C3F1/N Mouse Male
200 ppm | DAY ON TEST | S | S | S | S | S | S | S | S | S | S | S | S | S | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | |
| | | 5 | 1 | 7 | 7 | 7 | 7 | 7 | 5 | 3 | 7 | 7 | 7 | 7 | |
| | | 7 | 9 | 2 | 3 | 2 | 2 | 2 | 5 | 2 | 3 | 3 | 3 | 2 | |
| | ANIMAL ID | 6 | 4 | 9 | 1 | 9 | 9 | 9 | 8 | 4 | 0 | 0 | 0 | 9 | |
| | | 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 | 1 | 1 | 1 | 1 | |
| | | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS |
| ALIMENTARY SYSTEM | | | | | | | | | | | | | | | |
| ESOPHAGUS | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| INTESTINE, LARGE, CECUM | | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| INTESTINE, LARGE, COLON | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| INFLAMMATION; CHRONIC | | | | | | | | | 3 | | | | | | 1 3.0 |
| INTESTINE, LARGE, RECTUM | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| INTESTINE, SMALL, DUODENUM | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| INTESTINE, SMALL, ILEUM | | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| INTESTINE, SMALL, JEJUNUM | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| MESENTERY | | | | | | | + | | | | | | | | 2 |
| ADIPOSE TISSUE; NECROSIS | | | | | | | X | | | | | | | | 2 4.0 |
| PANCREAS | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| DUCT; INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | | | 1 2.0 |
| SALIVARY GLAND | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| INFILTRATION CELLULAR; MONONUCLEAR CELL | | | | | | | X | 2 | | | | | | | 2 2.0 |
| STOMACH, FORESTOMACH | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| EPITHELIUM; HYPERPLASIA; DIFFUSE | | | | | | | | | | | | | | | 1 1.0 |
| EPITHELIUM; HYPERPLASIA; FOCAL | | | | | | | 2 | | | | | | | | 2 2.5 |
| STOMACH, GLANDULAR | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

| | | | | | | | | | | | | | | | |
|--------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| B6C3F1/N Mouse Male
200 ppm | | S | S | S | S | S | S | S | S | S | S | S | S | S | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | |
| | | 5 | 1 | 7 | 7 | 7 | 7 | 7 | 5 | 3 | 7 | 7 | 7 | 7 | |
| | | 7 | 9 | 2 | 3 | 2 | 2 | 2 | 5 | 2 | 3 | 3 | 3 | 2 | |
| | | 6 | 4 | 9 | 1 | 9 | 9 | 9 | 8 | 4 | 0 | 0 | 0 | 9 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |
| | | 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 | |
| | | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | | | | | | | | | | | | | | | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | |
| AORTA | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| HEART | | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| CARDIOMYOPATHY | | | | | 1 | 1 | 1 | 1 | 1 | 2 | 1 | | | 1 | 41 1.1 |
| PERICARDIUM; DILATION | | | | | | | | | | | 3 | | | | 1 3.0 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

B6C3F1/N Mouse Male
200 ppm

DAY ON TEST

ANIMAL ID

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 5 | 1 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 3 | 7 | 7 | 7 | 7 | 7 |
| 7 | 9 | 2 | 3 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 3 | 3 | 2 | 2 |
| 6 | 4 | 9 | 1 | 9 | 9 | 9 | 9 | 8 | 4 | 0 | 0 | 0 | 9 | 9 |
| 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 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 |

*TOTALS

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| ADRENAL GLAND | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| ACCESSORY ADRENOCORTICAL NODULE | | | | X | | | | | | | | | | | 1 |
| BILATERAL, CORTEX, SUBCAPSULAR; HYPERPLASIA | | | | | | | | | | | | | | | 1 3.0 |
| CORTEX, SUBCAPSULAR; HYPERPLASIA | | | | | | | | | | | | | | | 2 2.5 |
| CORTEX; HYPERPLASIA; FOCAL | | | | | | | | | | | | | | | 1 2.0 |
| CORTEX, BILATERAL; HYPERTROPHY; FOCAL | | | | | | | | | | | | | | | 1 1.0 |
| CORTEX; HYPERTROPHY; FOCAL | | | | | | | | | | | | | | | 2 1.5 |
| PANCREATIC ISLET | | | | | | | | | | | | | | | 1 |
| HYPERPLASIA | | | | | | | | | | | | | | | 1 4.0 |
| PARATHYROID GLAND | N | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| PITUITARY GLAND | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 |
| PARS DISTALIS; CYST | | | | X | | | | | | | | | | | 3 |
| PARS DISTALIS; HYPERPLASIA | | | | | | | | | | | | | | | 1 1.0 |
| THYROID GLAND | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| INFLAMMATION | | | | | | | | | 3 | | | | | | 1 3.0 |
| POLYARTERITIS NODOSA | | | | | | | | | 3 | | | | | | 1 3.0 |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | |
|----------------|---|--|--|--|--|--|--|--|--|--|--|--|--|--|---|
| ADIPOSE TISSUE | | | | | | | | | | | | | | | 1 |
| CAVITY | + | | | | | | | | | | | | | | 3 |

| Male: Core Animals | | | | | | | | | | | | | | | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| B6C3F1/N Mouse Male
200 ppm | DAY ON TEST | S | S | S | S | S | S | S | S | S | S | S | S | S | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | |
| | | 5 | 1 | 7 | 7 | 7 | 7 | 7 | 5 | 3 | 7 | 7 | 7 | 7 | |
| | | 7 | 9 | 2 | 3 | 2 | 2 | 2 | 5 | 2 | 3 | 3 | 3 | 2 | |
| | ANIMAL ID | 6 | 4 | 9 | 1 | 9 | 9 | 9 | 8 | 4 | 0 | 0 | 0 | 9 | |
| | | 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 | 1 | 1 | 1 | 1 | |
| | | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | |
| BONE MARROW | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| HEPATOBIILIARY SYSTEM | | | | | | | | | | | | | | | |
| GALLBLADDER | | N | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| LIVER | | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| BASOPHILIC FOCUS | | | | | | | | | | | | X | | | 3 |
| CLEAR CELL FOCUS; MULTIPLE | | | | | | | | | | | | | | | 1 |
| CLEAR CELL FOCUS | | | X | | X | | | X | | | | | | | 7 |
| EOSINOPHILIC FOCUS; MULTIPLE | | | | | | | | | | | | | | | 1 |
| EOSINOPHILIC FOCUS | | | | | | | | | | | X | | | | 2 |
| FATTY CHANGE; DIFFUSE | | | | | 1 | | | | | | | | | | 3 1.0 |
| INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | | | 1 3.0 |
| INFLAMMATION; FOCAL | | | | | | | | | | | | | | | 1 1.0 |
| MIXED CELL FOCUS | | | | | | | | | | | | | | | 3 |
| MULTINUCLEATED HEPATOCYTE | | | | | 1 | | | | | | | 1 | 1 | 1 | 10 1.3 |
| NECROSIS | | | | 2 | | | | | | | | | | | 2 2.0 |
| TENSION LIPIDOSIS | | | | | | | | | | | | | | | 2 1.0 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

B6C3F1/N Mouse Male
200 ppm

DAY ON TEST

ANIMAL ID

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 5 | 1 | 7 | 7 | 7 | 7 | 7 | 5 | 3 | 7 | 7 | 7 | 7 | 7 | 7 |
| 7 | 9 | 2 | 3 | 2 | 2 | 2 | 5 | 2 | 3 | 3 | 3 | 3 | 2 | 2 |
| 6 | 4 | 9 | 1 | 9 | 9 | 9 | 8 | 4 | 0 | 0 | 0 | 0 | 9 | 9 |
| 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 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 5 |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 |

*TOTALS

IMMUNE SYSTEM

| | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| LYMPH NODE | | | | | | | | | | | | | | | 2 | |
| LYMPH NODE, BRONCHIAL | N | + | N | + | + | + | + | + | + | + | + | + | + | + | 44 | |
| LYMPH NODE, MANDIBULAR | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| HYPERPLASIA; LYMPHOCYTE | | | | | | | | | | | | | | | 3 | 3.0 |
| PIGMENT | | | | | | | | | | | | | | | 2 | 1.0 |
| LYMPH NODE, MEDIASTINAL | + | + | N | + | + | + | + | + | + | + | + | + | N | N | 41 | |
| INFILTRATION CELLULAR; HISTIOCYTE | | | | | | | | | | | | | | | 2 | 1.0 |
| LYMPH NODE, MESENTERIC | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | |
| ERYTHROPHAGOCYTOSIS | | | | | | | | | | | | | | | 1 | 4.0 |
| HYPERPLASIA; LYMPHOCYTE | | | | | | | | | | | | | | 1 | 1 | 1.0 |
| INFILTRATION CELLULAR; HISTIOCYTE | | | | | | | | | | | | | | | 1 | 1.0 |
| SPLEEN | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| EXTRAMEDULLARY HEMATOPOIESIS;
INCREASED | | | | | | | | | | 4 | | | | | 7 | 3.9 |
| THYMUS | + | + | N | + | + | + | + | + | + | + | + | + | + | + | 43 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| SKIN | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| FIBROSIS | | | | | | | | | | | | | | | 1 | 3.0 |
| EPITHELIAL CELL; HYPERPLASIA | 2 | | | | | | | | | | | | | | 1 | 2.0 |
| INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | | | 1 | 3.0 |
| INFLAMMATION; SUPPURATIVE | | | | | | | | 3 | | | | | | | 3 | 3.3 |
| PENIS; ULCER | | | | | | | | | | | | | | | 1 | 4.0 |
| ULCER | | | | | | | | | | | | | | | 5 | 3.6 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

| | | | | | | | | | | | | | | | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| B6C3F1/N Mouse Male
200 ppm | DAY ON TEST | S | S | S | S | S | S | S | S | S | S | S | S | S | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | |
| | | 5 | 1 | 7 | 7 | 7 | 7 | 7 | 5 | 3 | 7 | 7 | 7 | 7 | |
| | | 7 | 9 | 2 | 3 | 2 | 2 | 2 | 5 | 2 | 3 | 3 | 3 | 2 | |
| | | 6 | 4 | 9 | 1 | 9 | 9 | 9 | 8 | 4 | 0 | 0 | 0 | 9 | |
| | 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | |
| | | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| BONE | + | | | | | | | | | | | | | | 3 |
| FRACTURE | X | | | | | | | | | | | | | | 1 |
| BONE, FEMUR | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| SKELETAL MUSCLE | | | | | | | | | | | | | | | 1 |
| | | | | | | | | | | | | | | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | |
| BRAIN | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| SPINAL CORD | + | | | | | | | | | | | | | | 2 |
| LUMBAR; FRACTURE | 4 | | | | | | | | | | | | | | 1 4.0 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

B6C3F1/N Mouse Male
200 ppm

DAY ON TEST

ANIMAL ID

| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 5 | 1 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 3 | 7 | 7 | 7 | 7 | 7 |
| 7 | 9 | 2 | 3 | 2 | 2 | 2 | 2 | 5 | 2 | 3 | 3 | 3 | 3 | 2 |
| 6 | 4 | 9 | 1 | 9 | 9 | 9 | 9 | 8 | 4 | 0 | 0 | 0 | 0 | 9 |
| 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 | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 |

*TOTALS

REPRODUCTIVE SYSTEM

| | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| EPIDIDYMIS | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| DUCT, BILATERAL; ATROPHY | | | | | | | | | 2 | | | | | | 2 | 1.5 |
| DUCT; ATROPHY | | | | | | | | | | | | | | | 1 | 3.0 |
| DUCT, BILATERAL; EXFOLIATED GERM CELL | 1 | | | | | | | | | | | | | | 1 | 1.0 |
| DUCT; EXFOLIATED GERM CELL | | | | | | | | | | | | | | | 1 | 1.0 |
| FIBROSIS | | | | | | | | 2 | | | | | | | 1 | 2.0 |
| HYPOSERMIA | | | | | | | | | | | | | | | 1 | 4.0 |
| INFLAMMATION; ACUTE | | | | | | | | | | | | | | | 1 | 1.0 |
| INFLAMMATION; GRANULOMATOUS | | | | | | | | | | | | | | | 1 | 2.0 |
| MAMMARY GLAND | N | + | + | N | + | + | + | + | N | + | + | + | + | + | 32 | |
| PREPUTIAL GLAND | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| HYPERKERATOSIS | | | | | | | | | | | | | | | 1 | 2.0 |
| INFLAMMATION; SUPPURATIVE | | | | | | | | 3 | | | | | | | 8 | 2.4 |
| PROSTATE | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | 1 | 4.0 |
| SEMINAL VESICLE | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| EPITHELIUM; HYPERPLASIA | | | | | | | | 1 | | | | | | | 2 | 1.0 |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | 1 | 3.0 |
| TESTIS | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| GERMINAL EPITHELIUM; ATROPHY | | | | | | | | | | | | | | | 3 | 2.0 |
| GERMINAL EPITHELIUM, BILATERAL; DEGENERATION | | | | | | | | 1 | 1 | | | | | | 7 | 1.4 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

| B6C3F1/N Mouse Male
200 ppm | | DAY ON TEST | | ANIMAL ID | | S | S | S | S | S | S | S | S | S | S | S | S | *TOTALS | |
|--|--|-----------------------------|--|-----------|--|---|---|---|---|---|---|---|---|---|---|---|---|---------|-----|
| | | | | | | D | D | D | D | D | D | D | D | D | D | D | D | | |
| | | | | | | 5 | 1 | 7 | 7 | 7 | 7 | 7 | 5 | 3 | 7 | 7 | 7 | | 7 |
| | | | | | | 7 | 9 | 2 | 3 | 2 | 2 | 2 | 5 | 2 | 3 | 3 | 3 | | 2 |
| | | | | | | 6 | 4 | 9 | 1 | 9 | 9 | 9 | 8 | 4 | 0 | 0 | 0 | 9 | |
| | | | | | | 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 | 1 | 1 | | | |
| | | | | | | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| | | | | | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| GERMINAL EPITHELIUM;
DEGENERATION | | 1 | | | | | | | | | | | | | | | | 8 | 1.4 |
| SEMINIFEROUS TUBULE, BILATERAL;
DILATION | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| SEMINIFEROUS TUBULE; DILATION | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| RESPIRATORY SYSTEM | | | | | | | | | | | | | | | | | | | |
| LARYNX | | + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | 48 | |
| POLYARTERITIS NODOSA | | 2 | | | | | | | | | | | | | | | | 1 | 2.0 |
| LUNG | | + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | 50 | |
| ALVEOLAR/BRONCHIOLAR,
EPITHELIUM; HYPERPLASIA | | 2 2 2 1 | | | | | | | | | | | | | | | | 20 | 2.3 |
| POLYARTERITIS NODOSA | | 2 | | | | | | | | | | | | | | | | 1 | 2.0 |
| NOSE | | + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | 50 | |
| STENO'S GLAND; ATROPHY | | 1 | | | | | | | | | | | | | | | | 3 | 1.3 |
| RESPIRATORY EPITHELIUM, GLAND;
DILATION | | | | | | | | | | | | | | | | | | 1 | 1.0 |
| RESPIRATORY EPITHELIUM;
HYPERPLASIA | | 1 1 | | | | | | | | | | | | | | | | 9 | 1.2 |
| RESPIRATORY EPITHELIUM;
INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | | | | 3 | 1.0 |
| OLFACTORY EPITHELIUM;
METAPLASIA; RESPIRATORY | | 1 | | | | | | | | | | | | | | | | 4 | 1.0 |
| RESPIRATORY EPITHELIUM;
METAPLASIA; SQUAMOUS | | 1 | | | | | | | | | | | | | | | | 2 | 1.0 |
| TRACHEA | | + + + + + + + + + + + + + + | | | | | | | | | | | | | | | | 49 | |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

| | | | | | | | | | | | | | | | | |
|--------------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|-----|
| B6C3F1/N Mouse Male
200 ppm | | S | S | S | S | S | S | S | S | S | S | S | S | S | *TOTALS | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | | |
| | | 5 | 1 | 7 | 7 | 7 | 7 | 7 | 5 | 3 | 7 | 7 | 7 | 7 | | |
| | | 7 | 9 | 2 | 3 | 2 | 2 | 2 | 5 | 2 | 3 | 3 | 3 | 2 | | |
| | | 6 | 4 | 9 | 1 | 9 | 9 | 9 | 8 | 4 | 0 | 0 | 0 | 9 | | |
| DAY ON TEST | | 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 | 1 | 1 | 1 | 1 | | |
| | | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | |
| | | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| | | | | | | | | | | | | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | |
| EYE | | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| LENS; CATARACT | | | | | | | | | | | | | | | 1 | 1.0 |
| CORNEA; HYPERPLASIA; SQUAMOUS | | | | | | | | | | | | | | | 1 | 1.0 |
| HARDERIAN GLAND | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| BILATERAL; HYPERPLASIA | | | | | | | | | | | | | | | 1 | 4.0 |
| HYPERPLASIA | | 2 | | | | | | | | | | | | | 6 | 2.7 |
| | | | | | | | | | | | | | | | | |
| URINARY SYSTEM | | | | | | | | | | | | | | | | |
| KIDNEY | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| CHRONIC PROGRESSIVE
NEPHROPATHY | | 2 | | 1 | 1 | 1 | | 1 | 1 | | | | 1 | 1 | 30 | 1.4 |
| PELVIS; INFLAMMATION;
SUPPURATIVE | | | | | | | | | | | | | | | 1 | 4.0 |
| PAPILLA; MINERAL | | | | | | | | | | | | | | | 1 | 2.0 |
| URINARY BLADDER | | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 | |
| UROTHELIUM; HYPERPLASIA | | | 2 | 1 | | 1 | | 2 | | | | | 1 | | 18 | 1.6 |
| INFILTRATION CELLULAR;
LYMPHOCYTE | | | | | 1 | | | 1 | | | | | 1 | | 9 | 1.1 |
| INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | | | 1 | 4.0 |

Lab: Battelle with EPL

Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Final

Date Report Requested: 08/08/2024

Time Report Requested: 08:59:43

Lab: Battelle with EPL

Male: Core Animals

[illegible]

CARDIOVASCULAR SYSTEM

[illegible]

ENDOCRINE SYSTEM

[illegible]

GENERAL BODY SYSTEM

| | |
|--------|---|
| CAVITY | + |
|--------|---|

HEMATOPOIETIC SYSTEM

BONE MARROW +

| Male: Core Animals | | |
|---------------------------------------|-------------|-----------|
| B6C3F1/N Mouse Male
400 ppm | DAY ON TEST | ANIMAL ID | S | | | | |
| | | | D | | | |
| | | | 7 | 6 | 6 | 7 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 6 | 7 | | | |
| | | | 3 | 1 | 6 | 3 | 3 | 3 | 9 | 1 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 0 | 4 | 2 | 3 | 2 | 6 | 3 | 2 | 3 | 3 | 4 | 2 | 3 | 3 | 5 | 2 | | |
| | | | 0 | 6 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 2 | 0 | 9 | 9 | 8 | 1 | 9 | 0 | 9 | 9 | 0 | 9 | 1 | 1 | 0 | 2 | 5 | 0 | 0 | 7 | | | |
| | | | 0 | | | |
| | | | 0 | | | |
| | | | 1 | | | |
| | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | | | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | | | | |
| REPRODUCTIVE SYSTEM | | |
| EPIDIDYMIS | | | + | A | + | + | + | + | |
| DUCT, BILATERAL; ATROPHY | | | | | 2 | | | | | | | 1 | | | | 1 | | | | | | | | | 2 | | | | | | | | | | |
| DUCT, BILATERAL; EXFOLIATED GERM CELL | | | 1 | | | | | | 2 | | 1 | | | 2 | | | | | | | 1 | | | 1 | | | 1 | | 2 | 1 | 1 | 1 | 1 | | |
| DUCT; EXFOLIATED GERM CELL | | | | | 1 | 1 | | | 1 | | | | 1 | | | | | | | | | | | | 1 | | 1 | | | | | | | | |
| HYOSPERMIA | | | | | | | | | | | | | | | | 3 | | | | | | | | | 2 | | | | | | | | | | |
| INFLAMMATION; ACUTE | | |
| INFLAMMATION; GRANULOMATOUS | | | 2 | | |
| MAMMARY GLAND | | | N | + | + | + | + | N | + | N | N | N | N | N | + | N | N | + | + | + | N | N | + | N | N | N | + | N | + | + | + | + | + | N | + |
| PREPUTIAL GLAND | | | + | + | + | + | + | + | + | N | + | + | + | N | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | N | |
| CYST | | | | | | | X | |
| DUCT, BILATERAL; DILATION | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| FIBROSIS | | |
| DUCT; HYPERPLASIA | | | 3 | |
| INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | 3 | |
| INFLAMMATION; SUPPURATIVE | | | 2 | | | 3 | 2 | | 3 | | | | | | | | 3 | | | 1 | 3 | | 3 | | | | | | | 3 | | | | | |
| PROSTATE | | | + | |
| EPITHELIUM; HYPERPLASIA | | | 1 | |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | 1 | | | | | | | | | | | | | 2 | 1 | | | | | | | | |
| SEMINAL VESICLE | | | + | |
| DILATION | | | 2 | | | | | | | | |
| EPITHELIUM; HYPERPLASIA | | | 1 | | |
| TESTIS | | | + | + | + | + | + | + | + | A | + | A | + | + | + | + |

Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Final

Date Report Requested: 08/08/2024

Time Report Requested: 08:59:43

Lab: Battelle with EPL

Male: Core Animals

| B6C3F1/N Mouse Male
400 ppm | | |
|--------------------------------|--|----------------------------|
| | | |
| | | |
| | | |
| DAY ON TEST | | S
D
7
3
0 | S
D
6
1
6 | S
D
6
6
7 | S
D
7
7
0 | S
D
7
7
0 | S
D
7
7
0 | S
D
7
7
5 | S
D
7
7
2 | S
D
7
7
0 | S
D
7
7
9 | S
D
7
7
1 | S
D
7
7
3 | S
D
7
7
0 | S
D
7
7
9 | S
D
7
7
9 | S
D
7
7
8 | S
D
7
7
1 | S
D
7
7
9 | S
D
7
7
0 | S
D
7
7
9 | S
D
7
7
1 | S
D
7
7
1 | S
D
7
7
0 | S
D
7
7
2 | S
D
7
7
5 | S
D
7
7
0 | S
D
7
7
0 | S
D
7
7
1 | S
D
7
7
0 | S
D
7
7
5 | S
D
7
7
9 | S
D
7
7
9 | S
D
7
7
0 | S
D
7
7
8 | | | | |
| ANIMAL ID | | 0
0
1
1
5
1 | 0
0
1
1
5
2 | 0
0
1
1
5
3 | 0
0
1
1
5
4 | 0
0
1
1
5
5 | 0
0
1
1
5
6 | 0
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1
5
7 | 0
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5
8 | 0
0
1
1
5
9 | 0
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6
0 | 0
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1 | 0
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1
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6
2 | 0
0
1
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3 | 0
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4 | 0
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5 | 0
0
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6 | 0
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6 | 0
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7 | 0
0
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8 | 0
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9 | 0
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0 | 0
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0
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1
6
2 | 0
0
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6
3 | 0
0
1
1
6
4 | 0
0
1
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6
5 | 0
0
1
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6 | 0
0
1
1
6
7 | 0
0
1
1
6
8 | 0
0
1
1
6
9 | 0
0
1
1
6
0 | 0
0
1
1
6
1 | 0
0
1
1
6
2 | 0
0
1
1
6
3 | 0
0
1
1
6
4 | 0
0
1
1
6
5 | 0
0
1
1
6
6 | 0
0
1
1
6
7 |

RESPIRATORY SYSTEM

| | |
|--|---|
| LARYNX | + | A | + | + | + | + | + | |
| FOREIGN BODY | | | | X | |
| GLAND; INFLAMMATION;
SUPPURATIVE | 1 |
| EPIGLOTTIS; METAPLASIA;
SQUAMOUS |
| GLAND; MINERAL |
| LUNG | + | |
| INTERSTITIUM; FIBROSIS |
| FOREIGN BODY | | | | X | |
| HEMORRHAGE | |
| ALVEOLAR/BRONCHIOLAR,
EPITHELIUM; HYPERPLASIA |
| ALVEOLUS; INFILTRATION CELLULAR;
HISTIOCYTE |
| ALVEOLUS; PIGMENT |
| THROMBUS | |
| NOSE | + | |
| CONCRETION | |
| FOREIGN BODY | | | | X | | | | X | |
| RESPIRATORY EPITHELIUM;
HYPERPLASIA |
| NASOLACRIMAL DUCT;
INFLAMMATION; SUPPURATIVE |
| RESPIRATORY EPITHELIUM;
INFLAMMATION; SUPPURATIVE | |

| Male: Core Animals | | |
|---|--|---|
| B6C3F1/N Mouse Male
400 ppm | DAY ON TEST | S | | | |
| | | D | | | |
| | | 7 | 6 | 6 | 7 | 7 | 7 | 3 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | 7 | | |
| | | 3 | 1 | 6 | 3 | 3 | 3 | 9 | 1 | 3 | 2 | 3 | 3 | 3 | 2 | 2 | 0 | 4 | 2 | 3 | 2 | 6 | 3 | 2 | 3 | 3 | 3 | 4 | 2 | 3 | 3 | 3 | 3 | 5 | 2 | 2 | 3 | 8 |
| | | 0 | 6 | 7 | 0 | 0 | 0 | 5 | 2 | 0 | 9 | 1 | 0 | 0 | 9 | 9 | 8 | 1 | 9 | 0 | 9 | 9 | 3 | 0 | 9 | 1 | 1 | 0 | 2 | 5 | 0 | 0 | 1 | 0 | 7 | 9 | 9 | 0 |
| ANIMAL ID | 0 | 0 | | |
| | 1 | 1 | | |
| | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | |
| | OLFACTORY EPITHELIUM;
METAPLASIA; RESPIRATORY | | 2 | | | | 1 | | | | | |
| OLFACTORY EPITHELIUM;
METAPLASIA; RESPIRATORY,
SQUAMOUS | | | 2 | | | | | | | | | | |
| RESPIRATORY EPITHELIUM;
METAPLASIA; SQUAMOUS | | | 1 | | | | 1 | | | | | | |
| TRACHEA | | + | N | + | + | + | + | A | + | + | + | + |
| SPECIAL SENSES SYSTEM | | |
| EYE | | + | N | + | + | + | + | + | + | + |
| CORNEA; HYPERPLASIA; SQUAMOUS | | | 1 | | | | | | | | | | |
| CORNEA; INFLAMMATION; ACUTE | | | 1 | | | | | | | | | | |
| HARDERIAN GLAND | | + |
| BILATERAL; HYPERPLASIA | | |
| HYPERPLASIA | | | | | | | | | | | | | | | | | | 2 | 4 | | 3 | | 3 | | 4 | | | | | | | | | | | | | |

| Male: Core Animals | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| B6C3F1/N Mouse Male
400 ppm | DAY ON TEST | S | S | S | S | S | S | S | S | S | S | S | S | S | *TOTALS |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | |
| | | 6 | 5 | 6 | 6 | 5 | 7 | 7 | 5 | 4 | 7 | 7 | 7 | 3 | |
| | | 0 | 6 | 0 | 4 | 2 | 2 | 3 | 5 | 7 | 3 | 2 | 3 | 8 | |
| | | 3 | 3 | 9 | 1 | 8 | 9 | 0 | 0 | 7 | 1 | 9 | 1 | 3 | |
| 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 | |
| | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | |
| | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| ALIMENTARY SYSTEM | | | | | | | | | | | | | | | |
| ESOPHAGUS | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| INTESTINE, LARGE, CECUM | | + | + | + | A | + | + | + | + | + | + | + | + | + | 47 |
| INTESTINE, LARGE, COLON | | + | + | + | A | + | + | + | + | + | + | + | + | + | 48 |
| INTESTINE, LARGE, RECTUM | | + | + | + | A | + | + | + | + | + | + | + | + | + | 48 |
| INTESTINE, SMALL, DUODENUM | | + | + | + | A | + | + | + | + | + | + | + | + | + | 48 |
| INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | | | 1 3.0 |
| NECROSIS | | | | | | | | | | | | | | | 1 3.0 |
| ULCER | | | | | | | | | | | | | | | 1 3.0 |
| INTESTINE, SMALL, ILEUM | | + | + | + | A | + | + | + | + | + | + | + | + | + | 48 |
| CELLULARITY INCREASED;
LYMPHOCYTE | | | | | | | | | | | | 4 | | | 4 3.3 |
| INTESTINE, SMALL, JEJUNUM | | + | + | + | A | + | + | + | + | + | + | + | + | + | 47 |
| MESENTERY | | | | | | | | | | | | | | | 1 |
| PANCREAS | | + | + | + | A | + | + | + | + | + | + | + | + | + | 48 |
| ACINUS; INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | | | 1 3.0 |
| SALIVARY GLAND | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| INFILTRATION CELLULAR;
MONONUCLEAR CELL | | | | | | | | | | | | | | | 2 |
| STOMACH, FORESTOMACH | | + | + | + | A | + | + | + | + | + | + | + | + | + | 48 |
| EPITHELIUM; HYPERPLASIA; FOCAL | | | | | | | | | | | | | | | 4 1.8 |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | 1 1.0 |
| ULCER | | | | | | | | | | | | | | | 1 1.0 |
| STOMACH, GLANDULAR | | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |

| Male: Core Animals | | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|-----|
| B6C3F1/N Mouse Male
400 ppm | DAY ON TEST | S | S | S | S | S | S | S | S | S | S | S | S | S | | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | | |
| | | 6 | 5 | 6 | 6 | 5 | 7 | 7 | 5 | 4 | 7 | 7 | 7 | 7 | 3 | |
| | | 0 | 6 | 0 | 4 | 2 | 2 | 3 | 5 | 7 | 3 | 2 | 3 | 8 | | |
| | ANIMAL ID | 3 | 3 | 9 | 1 | 8 | 9 | 0 | 0 | 7 | 1 | 9 | 1 | 3 | | |
| | | 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 | 1 | 1 | 1 | 2 | | |
| | | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS | |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | | |
| AORTA | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| HEART | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| CARDIOMYOPATHY | | | | | | | 1 | | | | 1 | | 1 | 1 | 28 | 1.1 |
| MYOCARDIUM; INFLAMMATION;
SUPPURATIVE | | 4 | | | | | | | | | | | | | 1 | 4.0 |
| VALVE; THROMBUS | | X | | | | | | | | | | | | | 1 | |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | | |
| ADRENAL GLAND | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| ACCESSORY ADRENOCORTICAL
NODULE | | | | | | | | | | | | | | | 1 | |
| CORTEX, SUBCAPSULAR;
HYPERPLASIA | | | | | | | | | | | | | | | 2 | 2.5 |
| CORTEX; HYPERTROPHY; FOCAL | | | | | | | | | | | | | | | 3 | 1.7 |
| PARATHYROID GLAND | | + | + | + | N | + | + | + | + | N | + | + | + | + | 43 | |
| PITUITARY GLAND | | + | + | + | + | N | + | + | + | N | + | + | + | + | 45 | |
| PARS DISTALIS; CYST | | | | | | | | | | | | | | | 3 | |
| THYROID GLAND | | + | + | + | + | + | + | + | + | N | + | + | + | + | 49 | |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | | |
| CAVITY | | | | | | | | | | | | | | | 1 | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | | |
| BONE MARROW | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

| | | | | | | | | | | | | | | | | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| B6C3F1/N Mouse Male
400 ppm | DAY ON TEST | S | S | S | S | S | S | S | S | S | S | S | S | S | | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | | |
| | | 6 | 5 | 6 | 6 | 5 | 7 | 7 | 5 | 4 | 7 | 7 | 7 | 7 | 3 | |
| | | 0 | 6 | 0 | 4 | 2 | 2 | 3 | 5 | 7 | 3 | 2 | 3 | 8 | | |
| ANIMAL ID | | 3 | 3 | 9 | 1 | 8 | 9 | 0 | 0 | 7 | 1 | 9 | 1 | 3 | | *TOTALS |
| | | 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 | 1 | 1 | 1 | 2 | | |
| | | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

HEPATOBIILIARY SYSTEM

| | | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| GALLBLADDER | + | + | + | N | + | + | + | + | + | + | + | + | + | + | 47 | |
| LIVER | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| BASOPHILIC FOCUS; MULTIPLE | | | | | | | | | | | | | | | 1 | |
| BASOPHILIC FOCUS | X | | | | | | | | | | | | X | | 6 | |
| CLEAR CELL FOCUS | | | | | | | X | | | | | | | | 1 | |
| EOSINOPHILIC FOCUS; MULTIPLE | | | | | | | | | | | | | | | 2 | |
| EOSINOPHILIC FOCUS | X | | | | | | | | | | | | | | 7 | |
| EXTRAMEDULLARY HEMATOPOIESIS | | | | | | | | | | | | | | | 1 | 1.0 |
| FATTY CHANGE; DIFFUSE | | 1 | | | | | | | | | | | | | 3 | 1.3 |
| INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | | | 2 | 3.0 |
| INFLAMMATION; FOCAL | | | | | | | | | | | | | | | 1 | 1.0 |
| MIXED CELL FOCUS; MULTIPLE | | | | | | X | | | | | | | | | 1 | |
| MIXED CELL FOCUS | | | | | | | | | | | | | | | 4 | |
| MULTINUCLEATED HEPATOCYTE | 2 | 2 | | | | 1 | | 1 | | 2 | 1 | | 1 | | 23 | 1.4 |
| NECROSIS; SINGLE CELL | | | | | | | | | | | | | | | 1 | 2.0 |
| NECROSIS | | 3 | 3 | | 4 | | | | | | | | | | 7 | 2.9 |

| Male: Core Animals | | | | | | | | | | | | | | | |
|--------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| B6C3F1/N Mouse Male
400 ppm | DAY ON TEST | S | S | S | S | S | S | S | S | S | S | S | S | S | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | |
| | | 6 | 5 | 6 | 6 | 5 | 7 | 7 | 5 | 4 | 7 | 7 | 7 | 3 | |
| | | 0 | 6 | 0 | 4 | 2 | 2 | 3 | 5 | 7 | 3 | 2 | 3 | 8 | |
| ANIMAL ID | | 3 | 3 | 9 | 1 | 8 | 9 | 0 | 0 | 7 | 1 | 9 | 1 | 3 | |
| | | 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 | 1 | 1 | 1 | 2 | |
| | | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS |

| IMMUNE SYSTEM | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|--|--|--|--|--|---------|
| LYMPH NODE | | | | | | | | | | | | | | | 1 |
| LYMPH NODE, BRONCHIAL | | | | | | | | | | | | | | | 44 |
| LYMPH NODE, MANDIBULAR | | | | | | | | | | | | | | | 48 |
| HYPERPLASIA; LYMPHOCYTE | | | | | | | | | | | | | | | 6 3.0 |
| LYMPH NODE, MEDIASTINAL | | | | | | | | | | | | | | | 38 |
| CYST | | | | | | | | | | | | | | | 1 |
| HYPERPLASIA; LYMPHOCYTE | | | | | | | | | | | | | | | 1 3.0 |
| INFILTRATION CELLULAR; HISTIOCYTE | | | | | | | | | | | | | | | 2 1.0 |
| LYMPH NODE, MESENTERIC | | | | | | | | | | | | | | | 48 |
| HEMORRHAGE | | | | | | | | | | | | | | | 2 3.0 |
| HYPERPLASIA; LYMPHOCYTE | | | | | | | | | | | | | | | 6 3.0 |
| INFLAMMATION; GRANULOMATOUS | | | | | | | | | | | | | | | 2 4.0 |
| THROMBUS | | | | | | | | | | | | | | | 1 |
| SPLEEN | | | | | | | | | | | | | | | 49 |
| EXTRAMEDULLARY HEMATOPOIESIS; INCREASED | | | | | | | | | | | | | | | 2 6 3.3 |
| HEMORRHAGE | | | | | | | | | | | | | | | 1 4.0 |
| THYMUS | | | | | | | | | | | | | | | 41 |
| ATROPHY | | | | | | | | | | | | | | | 1 3.0 |

Male: Core Animals

| | | | | | | | | | | | | | | | | | |
|--------------------------------|--|---------|---|---|---|---|---|---|---|---|---|---|---|---|----|---|-----|
| B6C3F1/N Mouse Male
400 ppm | | | | | | | | | | | | | | | | | |
| | | S | S | S | S | S | S | S | S | S | S | S | S | S | | | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| | | 6 | 5 | 6 | 6 | 5 | 7 | 7 | 5 | 4 | 7 | 7 | 7 | 3 | | | |
| | | 0 | 6 | 0 | 4 | 2 | 2 | 3 | 5 | 7 | 3 | 2 | 3 | 8 | | | |
| | | 3 | 3 | 9 | 1 | 8 | 9 | 0 | 0 | 7 | 1 | 9 | 1 | 3 | | | |
| DAY ON TEST | | 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 | 1 | 1 | 1 | 2 | | | |
| | | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | |
| 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 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | | |
| | | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | |
| | | *TOTALS | | | | | | | | | | | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | |
| SKIN | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| EROSION | | 1 | | | | | | | | | | | | | | 1 | 1.0 |
| HYPERKERATOSIS | | 3 | | | | | | | | | | | | | | 1 | 3.0 |
| INFLAMMATION; SUPPURATIVE | | 4 | | | | | | | | | | | | | | 3 | 3.3 |
| ULCER | | | | | | | | | | | | | | | | 2 | 3.0 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | |
| BONE, FEMUR | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| SKELETAL MUSCLE | | | | | | | | | | | | | | | | 1 | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | |
| BRAIN | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| CEREBELLUM; HEMORRHAGE | | | | | | | | | | | | | | | | 1 | 2.0 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

B6C3F1/N Mouse Male
400 ppm

DAY ON TEST

ANIMAL ID

| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 6 | 5 | 6 | 6 | 5 | 7 | 7 | 5 | 4 | 7 | 7 | 7 | 7 | 3 | |
| 0 | 6 | 0 | 4 | 2 | 2 | 3 | 5 | 7 | 3 | 2 | 3 | 8 | | |
| 3 | 3 | 9 | 1 | 8 | 9 | 0 | 0 | 7 | 1 | 9 | 1 | 3 | | |
| 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 | 1 | 1 | 1 | 2 | | |
| 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |

*TOTALS

REPRODUCTIVE SYSTEM

| | | | | | | | | | | | | | | | | |
|---------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|-----|
| EPIDIDYMIS | + | + | + | A | + | + | + | + | + | + | + | + | + | 48 | | |
| DUCT, BILATERAL; ATROPHY | | | | | | | | | | | | | 1 | 5 | 1.4 | |
| DUCT, BILATERAL; EXFOLIATED GERM CELL | | | | | | | | | | | | | 1 | 12 | 1.3 | |
| DUCT; EXFOLIATED GERM CELL | | | | | | | | | | | | | | 6 | 1.0 | |
| HYOSPERMIA | | | | | | | | | | | | | | 2 | 2.5 | |
| INFLAMMATION; ACUTE | | | | | | | | 1 | | | | | | 1 | 1.0 | |
| INFLAMMATION; GRANULOMATOUS | | | | | | | | | | | | | | 1 | 2.0 | |
| MAMMARY GLAND | N | + | + | N | + | + | + | + | + | + | + | + | + | 31 | | |
| PREPUTIAL GLAND | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | | |
| CYST | | | | | | | | | | | | | | 3 | | |
| DUCT, BILATERAL; DILATION | | | | | | | | | | | | | | 1 | 3.0 | |
| FIBROSIS | | | | | | | | | | | | | | 3 | 1 | 3.0 |
| DUCT; HYPERPLASIA | | | | | | | | | | | | | | 1 | 3.0 | |
| INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | | 1 | 3.0 | |
| INFLAMMATION; SUPPURATIVE | | | | | | | | 3 | | | | | | 11 | 2.6 | |
| PROSTATE | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| EPITHELIUM; HYPERPLASIA | | | | | | | | | | | | | 1 | 2 | 1.0 | |
| INFLAMMATION; SUPPURATIVE | | | | | | | | 4 | | | | | | 4 | 2.0 | |
| SEMINAL VESICLE | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| DILATION | | | | | | | | | | | | | | 1 | 2.0 | |
| EPITHELIUM; HYPERPLASIA | | | | | | | | | | | | | | 1 | 1.0 | |
| TESTIS | + | + | + | A | + | + | + | + | + | + | + | + | + | 47 | | |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

| | | | | | | | | | | | | | | | | |
|---|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| B6C3F1/N Mouse Male
400 ppm | | S | S | S | S | S | S | S | S | S | S | S | S | S | S | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | D | |
| | | 6 | 5 | 6 | 6 | 5 | 7 | 7 | 5 | 4 | 7 | 7 | 7 | 7 | 3 | |
| | | 0 | 6 | 0 | 4 | 2 | 2 | 3 | 5 | 7 | 3 | 2 | 3 | 8 | | |
| | | 3 | 3 | 9 | 1 | 8 | 9 | 0 | 0 | 7 | 1 | 9 | 1 | 3 | | |
| DAY ON TEST | | | | | | | | | | | | | | | | |
| ANIMAL ID | | 0 | 0 | 0 | 0 | 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 | |
| | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | | |
| | | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| GERMINAL EPITHELIUM, BILATERAL;
ATROPHY | | | | | | | | | | | | | | | | 1 2.0 |
| GERMINAL EPITHELIUM; ATROPHY | | | | | | | | | | | | | | | | 5 2.0 |
| GERMINAL EPITHELIUM, BILATERAL;
DEGENERATION | | | | | | | | | | | | 1 | 2 | | | 20 1.5 |
| GERMINAL EPITHELIUM;
DEGENERATION | | | | | | | 1 | | 1 | | 1 | | | | | 8 1.3 |
| RETE TESTIS; DILATION | | | | | | | | | 1 | | | | 1 | | | 5 1.0 |
| SEMINIFEROUS TUBULE; DILATION | | | | | | | | | | | | | | | | 2 1.5 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

B6C3F1/N Mouse Male
400 ppm

DAY ON TEST

ANIMAL ID

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 6 | 5 | 6 | 6 | 5 | 7 | 7 | 5 | 4 | 7 | 7 | 7 | 7 | 3 | |
| 0 | 6 | 0 | 4 | 2 | 2 | 3 | 5 | 7 | 3 | 2 | 3 | 8 | | |
| 3 | 3 | 9 | 1 | 8 | 9 | 0 | 0 | 7 | 1 | 9 | 1 | 3 | | |
| 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 | 1 | 1 | 1 | 2 | | |
| 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |

*TOTALS

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| LARYNX | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| FOREIGN BODY | | | | | | | | | | | | | | 1 | |
| GLAND; INFLAMMATION;
SUPPURATIVE | | | | | | | | | | | | | | 3 | 1.0 |
| EPIGLOTTIS; METAPLASIA;
SQUAMOUS | | | | | | | | | | | | | | 1 | 1.0 |
| GLAND; MINERAL | | | | | | | | | | | | | | 1 | 1.0 |
| LUNG | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| INTERSTITIUM; FIBROSIS | | | | | | | | | | | | | 1 | 1 | 1.0 |
| FOREIGN BODY | | | | | | | | | | | | | | 1 | |
| HEMORRHAGE | 4 | | | | | | | | | | | | | 4 | 3.8 |
| ALVEOLAR/BRONCHIOLAR,
EPITHELIUM; HYPERPLASIA | 4 | 1 | | 2 | | 4 | 4 | 4 | | | 2 | 1 | 1 | 27 | 2.6 |
| ALVEOLUS; INFILTRATION CELLULAR;
HISTIOCYTE | | | | | | | | | | | | | | 1 | 2.0 |
| ALVEOLUS; PIGMENT | | | | | | | | | | | | | | 1 | 2.0 |
| THROMBUS | | | | X | | | | | | | | | | 1 | |
| NOSE | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| CONCRETION | | | | | | | | | | | | | | 1 | 1.0 |
| FOREIGN BODY | | | | | | | | | | | | | | 2 | |
| RESPIRATORY EPITHELIUM;
HYPERPLASIA | | | | | | | | | | | | | | 5 | 1.0 |
| NASOLACRIMAL DUCT;
INFLAMMATION; SUPPURATIVE | | | | | | | | | 1 | | | | | 5 | 1.6 |
| RESPIRATORY EPITHELIUM;
INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | 6 | 1.3 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
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CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Male: Core Animals

| | | | | | | | | | | | | | | | | | |
|---|--|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------------|-----|-----|
| B6C3F1/N Mouse Male
400 ppm | | DAY ON TEST | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | <i>S</i> | *TOTALS | | |
| | | | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | <i>D</i> | | | |
| | | | 6 | 5 | 6 | 6 | 5 | 7 | 7 | 5 | 4 | 7 | 7 | 7 | | 3 | |
| | | | 0 | 6 | 0 | 4 | 2 | 2 | 3 | 5 | 7 | 3 | 2 | 3 | | 8 | |
| | | | 3 | 3 | 9 | 1 | 8 | 9 | 0 | 0 | 7 | 1 | 9 | 1 | | 3 | |
| | | 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 | |
| | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 2 | |
| | | | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | 0 | |
| | | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | | 0 | |
| OLFACTORY EPITHELIUM;
METAPLASIA; RESPIRATORY | | | | | | | | | | | | | | | 2 | 1.5 | |
| OLFACTORY EPITHELIUM;
METAPLASIA; RESPIRATORY,
SQUAMOUS | | | | | | | | | | | | | | | | 1 | 2.0 |
| RESPIRATORY EPITHELIUM;
METAPLASIA; SQUAMOUS | | | | | | | | | | | | | | | | 2 | 1.0 |
| TRACHEA | | | + | + | + | + | + | + | + | + | + | + | + | + | | 48 | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | |
| EYE | | | + | + | + | + | + | + | + | + | + | + | + | + | | 49 | |
| CORNEA; HYPERPLASIA; SQUAMOUS | | | | | | | | | | | | | | | | 1 | 1.0 |
| CORNEA; INFLAMMATION; ACUTE | | | | | | | | | | | | | | | | 1 | 1.0 |
| HARDERIAN GLAND | | | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | |
| BILATERAL; HYPERPLASIA | | | | | | | | 2 | | | | | | | | 1 | 2.0 |
| HYPERPLASIA | | | | | | | | | | | | | | | | 5 | 3.2 |

Study Number: C20302B-01
 Test Type: TOX
 Route: Whole-Body Inhalation
 Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
 Test Compound: alpha-Pinene
 CAS Number: 80-56-8
 Final

Date Report Requested: 08/08/2024
 Time Report Requested: 08:59:43
 Lab: Battelle with EPL

Male: Core Animals

B6C3F1/N Mouse Male
 400 ppm

DAY ON TEST

ANIMAL ID

| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 6 | 5 | 6 | 6 | 5 | 7 | 7 | 5 | 4 | 7 | 7 | 7 | 7 | 3 | 3 |
| 0 | 6 | 0 | 4 | 2 | 2 | 3 | 5 | 7 | 3 | 2 | 3 | 8 | 3 | 8 |
| 3 | 3 | 9 | 1 | 8 | 9 | 0 | 0 | 7 | 1 | 9 | 1 | 3 | 3 | 3 |
| 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 | 1 | 1 | 1 | 1 | 2 | 2 |
| 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 |

*TOTALS

URINARY SYSTEM

| | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| KIDNEY | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| CHRONIC PROGRESSIVE
NEPHROPATHY | | | | | | 1 | 1 | | | 1 | | 1 | 1 | | 32 | 1.6 |
| RENAL TUBULE; CYST | | | | | | | X | | | | | | | | 3 | |
| PELVIS; DILATION | 4 | | | | | | | 3 | | | | | | | 4 | 3.5 |
| INFARCT | | | | | | | | | | 2 | | | | | 2 | 2.0 |
| PELVIS; INFLAMMATION;
SUPPURATIVE | | | | | | | | | 4 | | | | | | 4 | 4.0 |
| RENAL TUBULE; INFLAMMATION;
SUPPURATIVE | 2 | | | | | | | | | | | | | | 2 | 3.0 |
| RENAL TUBULE; NECROSIS | 2 | | | | | | | | | | | | | | 2 | 3.0 |
| POLYARTERITIS NODOSA | | | | | | | | | | | | | | | 1 | 3.0 |
| CYTOPLASMIC, RENAL TUBULE;
VACUOLATION | | 2 | | | | | | | | | | | | | 2 | 2.5 |
| URINARY BLADDER | + | + | A | A | + | + | + | + | A | + | + | + | + | + | 45 | |
| UROTHELIUM; HYPERPLASIA | | 1 | | | | | | | | 2 | | | | | 15 | 1.5 |
| INFILTRATION CELLULAR;
LYMPHOCYTE | | 1 | | | | | 1 | | | 2 | | | | | 9 | 1.4 |
| INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | | | 2 | 2.5 |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | 1 | | | 1 | | | 5 | 1.6 |
| UROTHELIUM; PIGMENT | | | | | | | | | | | | | | | 1 | 2.0 |

| Female: Core Animals | | |
|--|-------------|-----------|
| B6C3F1/N Mouse Female
0 ppm | DAY ON TEST | ANIMAL ID | S | |
| | | | D |
| | | | 3 | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 |
| | | | 9 | 8 | 3 | 3 | 2 | 3 | 4 | 3 | 3 | 0 | 3 | 3 | 7 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 1 | 3 | 0 | 9 | 3 |
| | 4 | 8 | 2 | 1 | 8 | 1 | 6 | 3 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 3 | 1 | 3 | 3 | 8 | 2 | 3 | 2 | 5 | 3 | 2 | 0 | 0 | 0 | |
| | 0 | 0 | 0 | |
| | 0 | 0 | 0 | |
| | 2 | 2 | 2 | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | |
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| ALIMENTARY SYSTEM | | |
| ESOPHAGUS | | | + | |
| INTESTINE, LARGE, CECUM | | | + | |
| INTESTINE, LARGE, COLON | | | + | |
| INTESTINE, LARGE, RECTUM | | | + | + | + | + | + | + | N | + | + | + | + | + | + | + | + | + | N | + | + | + | + | + | + | + | + | + | + | + | |
| INTESTINE, SMALL, DUODENUM | | | + | |
| INTESTINE, SMALL, ILEUM | | | + | |
| INTESTINE, SMALL, JEJUNUM | | | + | |
| MESENTERY | | |
| ADIPOSE TISSUE; NECROSIS | | |
| PANCREAS | | | + | |
| ACINUS; INFILTRATION CELLULAR;
MONONUCLEAR CELL | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| ACINUS; INFLAMMATION; CHRONIC-
ACTIVE | | | | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | |
| SALIVARY GLAND | | | + | N | + | |
| INFILTRATION CELLULAR;
MONONUCLEAR CELL | | | 2 | | | |
| STOMACH, FORESTOMACH | | | + | |
| STOMACH, GLANDULAR | | | + | |

Lab: Battelle with EPL

| | | Female: Core Animals | |
|--|-----------------------|
| B6C3F1/N Mouse Female
0 ppm | |
| | | DAY ON TEST | |
| | | ANIMAL ID | |
| | | S
D
3
9
4 | S
D
6
8
8 | S
D
7
3
2 | S
D
7
3
1 | S
D
6
2
8 | S
D
7
3
1 | S
D
6
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6 | S
D
7
3
3 | S
D
7
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2 | S
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7
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2 | S
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3 | S
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3
3
4 | 0
0
3
3
5 | 0
0
3
3
6 | 0
0
3
3
7 |
| HEMATOPOIETIC SYSTEM |
| BONE MARROW | | + | |
| ANGIECTASIS | | 3 | |
| HEPATOBIILIARY SYSTEM | |
| GALLBLADDER | | + | |
| LIVER | | + | |
| BASOPHILIC FOCUS | | X | |
| CLEAR CELL FOCUS |
| EOSINOPHILIC FOCUS | | X | |
| FATTY CHANGE; DIFFUSE | | 1 | |
| INFILTRATION CELLULAR;
MONONUCLEAR CELL | | 1 | |
| INFLAMMATION; FOCAL | | 2 | |
| MIXED CELL FOCUS | | X | |
| NECROSIS | | 2 | |
| POLYARTERITIS NODOSA | | 1 | |
| TENSION LIPIDOSIS | | 1 | |

| | | | Female: Core Animals | | | | |
|--|-------------|-----------|----------------------|--|--|--|--|
| B6C3F1/N Mouse Female
0 ppm | DAY ON TEST | ANIMAL ID | S | S | | | | | | | |
| | | | D | D | | | | | | | |
| | | | 3 | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | | | | | | | |
| | | | 9 | 8 | 3 | 3 | 2 | 3 | 4 | 3 | 3 | 0 | 3 | 3 | 7 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 1 | 3 | 0 | 9 | 3 | 3 | 3 | | | | | |
| | | | 4 | 8 | 2 | 1 | 8 | 1 | 6 | 3 | 2 | 2 | 3 | 2 | 3 | 2 | 3 | 1 | 3 | 3 | 1 | 2 | 3 | 3 | 8 | 2 | 3 | 2 | 5 | 3 | 2 | 0 | 1 | 1 | 2 | 2 | | | | | |
| | | | 0 | 0 | | | | | | |
| | | | 0 | 0 | | | | | | |
| | | | 2 | 2 | | | | | | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | | | | | | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | | | | | |
| IMMUNE SYSTEM | | | | | | | |
| LYMPH NODE | | | + | | | | |
| LYMPH NODE, BRONCHIAL
HYPERPLASIA; LYMPHOCYTE | | | + | + | + | + | + | + | + | + | + | + | + | + | + | N | + | + | + | + | + | N | + | + | + | + | N | + | N | + | + | + | + | + | + | | | | | | |
| | | | | | | | | | | | | | | | | 4 | 3 | | | | | | | | | | | 3 | | | | | | | | | | | | | |
| LYMPH NODE, MANDIBULAR
HEMORRHAGE | | | + | N | N | + | + | + | + | + | + | + | + | + | + | N | + | + | + | + | + | + | + | + | + | + | + | N | N | + | + | + | + | + | + | + | | | | | |
| HYPERPLASIA; LYMPHOCYTE | | | | | | | | | | | | | | | | 2 | | | | |
| | | | | | | | | | | | | | | | | 3 | | 2 | | | | |
| LYMPH NODE, MEDIASTINAL
HYPERPLASIA; LYMPHOCYTE | | | + | N | + | | | | | |
| | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | 1 | | | | | | | | | | | | | | |
| INFILTRATION CELLULAR; HISTIOCYTE | | | | | | | | | | | | | | | | 1 | 1 | | | | |
| LYMPH NODE, MESENTERIC
HEMORRHAGE | | | + | + | N | + | + | + | + | + | + | + | + | | | | | |
| | | | | | | | | | | | | | | | | 2 | | | | |
| HYPERPLASIA; LYMPHOCYTE | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| POLYARTERITIS NODOSA | | | | | | | | | | | | | | | | 3 | | | | |
| SPLEEN | | | + | + | | | | | |
| EXTRAMEDULLARY HEMATOPOIESIS;
INCREASED | | | | | | | | | | | | | | | | 3 | | | | | | | | | | | 3 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | | | | | | | 4 | 4 | | | | | | | |
| THYMUS | | | + | N | + | | | | | |
| INTEGUMENTARY SYSTEM | | | | | | | |
| SKIN | | | + | + | | | | | | |
| HYPERKERATOSIS | | | | 1 | | | | | | | | | |
| ULCER | | | | | | | | | | | | | | | | 2 | | 4 | | | | |

| | | | Female: Core Animals | |
|----------------------------------|-------------|-----------|----------------------|
| B6C3F1/N Mouse Female
0 ppm | DAY ON TEST | ANIMAL ID | S | S | | |
| | | | D | D | |
| | | | 3 | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | |
| | | | 9 | 8 | 3 | 3 | 2 | 3 | 4 | 3 | 3 | 0 | 3 | 3 | 7 | 3 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | | 4 | 8 | 2 | 1 | 8 | 1 | 6 | 3 | 2 | 2 | 3 | 2 | 3 | 3 | 1 | 3 | 3 | 3 | 1 | 2 | 3 | 3 | 2 | 5 | 3 | 2 | 1 | 9 | 3 | 1 | 2 | 3 | |
| | | | 0 | 0 | |
| | | | 0 | 0 | |
| | | | 2 | 2 | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | |
| REPRODUCTIVE SYSTEM | | | |
| CLITORAL GLAND | | | + | + | N | + | N | + | + | + | + | + | + | + | + | + | + | + | + | + | N | + | + | + | + | + | + | + | + | + | + | + | + | | |
| DUCT; DILATION | | | 1 |
| MAMMARY GLAND | | | + | + | N | + | + | + | + |
| DUCT; DILATION | | | 2 |
| HYPERPLASIA; LOBULOALVEOLAR | | | 2 |
| OVARY | | | 1 |
| ANGIECTASIS | | | + | N | + | + | + | N | + | | |
| CYST; BURSAL | | | 4 |
| CYST; FOLLICULAR | | | X |
| CYST | | | X |
| GRANULOSA CELL; HYPERPLASIA | | | X |
| HYPERPLASIA; TUBULOSTROMAL | | | 1 |
| INFLAMMATION; GRANULOMATOUS | | | 4 |
| PIGMENT | | | 3 |
| UTERINE CERVIX | | | + | N | + | | |
| UTERUS | | | + | + | |
| DILATION | | | 1 |
| ENDOMETRIUM; HYPERPLASIA; CYSTIC | | | 4 |
| VAGINA | | | 1 |
| INFLAMMATION; SUPPURATIVE | | | 1 |

| Female: Core Animals | | |
|--|---|-----------------------|
| B6C3F1/N Mouse Female
0 ppm | | DAY ON TEST | |
| | | ANIMAL ID | |
| | | S
D
3
9
4 | S
D
6
8
8 | S
D
7
3
2 | S
D
7
7
1 | S
D
6
2
8 | S
D
7
3
1 | S
D
6
4
6 | S
D
7
7
3 | S
D
6
7
2 | S
D
7
7
0 | S
D
6
7
3 | S
D
7
7
2 | S
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3 | S
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3 | S
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3 | S
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5 | S
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7
9 | S
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6
7
3 | S
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7
7
1 | S
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7
2 | S
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3 | S
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6
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3 | S
D
7
7
4 | S
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6
7
8 | S
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3 | S
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6
7
2 | S
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| | | 0
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1 | 0
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2 | 0
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3 | 0
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4 | 0
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5 | 0
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6 | 0
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7 | 0
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8 | 0
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9 | 0
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3 | 0
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4 | 0
0
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1
5 | 0
0
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1
6 | 0
0
2
1
7 | 0
0
2
1
8 | 0
0
2
2
9 | 0
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0 | 0
0
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1 | 0
0
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4 | 0
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5 | 0
0
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6 | 0
0
2
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7 | 0
0
2
2
8 | 0
0
2
2
9 | 0
0
2
3
0 | 0
0
2
3
1 | 0
0
2
3
2 | 0
0
2
3
3 | 0
0
2
3
4 | 0
0
2
3
5 | 0
0
2
3
6 | 0
0
2
3
7 | |
| RESPIRATORY SYSTEM | | |
| LARYNX | + | + | | |
| POLYARTERITIS NODOSA | | 1 | | 1 | | | | | | | | | | | | | 1 | |
| LUNG | + | + | |
| PERIVASCULAR; INFILTRATION
CELLULAR; MONONUCLEAR CELL | | | | | | | | | | 1 | | 1 | | | | | | | | 1 | | | | | 1 | | | | | | | | | | | | | | |
| PLEURA; INFLAMMATION; CHRONIC-
ACTIVE | | | | | | | | | 1 | |
| NOSE | + | + | | |
| FRACTURE | | | X | | |
| RESPIRATORY EPITHELIUM;
HYPERPLASIA | | | | 1 | | | | 1 | | 1 | | 1 | | | | | 1 | 1 | 1 | 1 | | | | 1 | | | | | 1 | | 1 | | | | | | 1 | | |
| NASOLACRIMAL DUCT;
INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | | | 1 | |
| OLFACTORY EPITHELIUM;
INFLAMMATION; SUPPURATIVE | | |
| RESPIRATORY EPITHELIUM;
INFLAMMATION; SUPPURATIVE | | | | | 1 | | | | | | | | | | 1 | | | | | | | | | | | | | | | 1 | | | | | | | | | |
| TRANSITIONAL EPITHELIUM;
INFLAMMATION; SUPPURATIVE | | |
| OLFACTORY EPITHELIUM;
METAPLASIA; RESPIRATORY | | | | | | | | | 1 | 1 | | | | | | | | | | | | | | 1 | | | | 1 | | | | | | | | | | | |
| RESPIRATORY EPITHELIUM;
METAPLASIA; SQUAMOUS | | | 1 | |
| OLFACTORY EPITHELIUM; NECROSIS | | | 2 | | | |
| POLYARTERITIS NODOSA | | 1 | | | | | | | | | | | | | | | | | 1 | |
| TRACHEA | + | + | | |

Lab: Battelle with EPL

| Female: Core Animals | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| B6C3F1/N Mouse Female
0 ppm | DAY ON TEST | S | S | S | S | S | S | S | S | S | S | S | S | S | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | |
| | | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 4 | 7 | |
| | | 3 | 3 | 1 | 3 | 5 | 3 | 3 | 3 | 5 | 3 | 3 | 5 | 3 | |
| | ANIMAL ID | 1 | 3 | 9 | 1 | 7 | 2 | 2 | 2 | 9 | 2 | 3 | 0 | 3 | |
| | | 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 | 2 | 2 | 2 | 2 | |
| | | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS |
| ALIMENTARY SYSTEM | | | | | | | | | | | | | | | |
| ESOPHAGUS | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| INTESTINE, LARGE, CECUM | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| INTESTINE, LARGE, COLON | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| INTESTINE, LARGE, RECTUM | | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| INTESTINE, SMALL, DUODENUM | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| INTESTINE, SMALL, ILEUM | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| INTESTINE, SMALL, JEJUNUM | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| MESENTERY | | | | | | + | | | + | | | | | | 5 |
| ADIPOSE TISSUE; NECROSIS | | | | | | 3 | | | X | | | | | | 5 3.0 |
| PANCREAS | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| ACINUS; INFILTRATION CELLULAR;
MONONUCLEAR CELL | | | | | | | | | | | | | | | 1 3.0 |
| ACINUS; INFLAMMATION; CHRONIC-
ACTIVE | | | | | | | | | | | | | | | 1 3.0 |
| SALIVARY GLAND | | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| INFILTRATION CELLULAR;
MONONUCLEAR CELL | | | | | | | | | | | | | | | 1 2.0 |
| STOMACH, FORESTOMACH | | + | + | + | + | A | + | + | + | + | + | + | + | + | 49 |
| STOMACH, GLANDULAR | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Female: Core Animals

B6C3F1/N Mouse Female
0 ppm

DAY ON TEST

ANIMAL ID

| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 4 | 7 | |
| 3 | 3 | 1 | 3 | 5 | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 5 | 3 | |
| 1 | 3 | 9 | 1 | 7 | 2 | 2 | 2 | 9 | 2 | 3 | 0 | 3 | | |
| 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 | 2 | 2 | 2 | 2 | 2 | |
| 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |

*TOTALS

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | |
|----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| AORTA | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| POLYARTERITIS NODOSA | | | | | | | | | | | | | | 1 | 1.0 |
| HEART | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| CARDIOMYOPATHY | | 1 | 1 | 1 | | | | | | 1 | | | | 31 | 1.1 |
| POLYARTERITIS NODOSA | | | | | | | | | | | | | | 2 | 1.0 |
| ATRIUM; THROMBUS | | | | | | | | | | | | | | 1 | |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| ADRENAL GLAND | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| ACCESSORY ADRENOCORTICAL NODULE | | | | | | | | | | | | | | 1 | |
| ANGIECTASIS; FOCAL | | | | | | | | | | | | | | 1 | 1.0 |
| INFARCT | | | | | | | | | | | | | | 1 | 2.0 |
| PARATHYROID GLAND | + | + | + | + | N | + | + | + | + | + | + | + | + | 47 | |
| PITUITARY GLAND | + | + | + | + | N | + | + | + | + | + | + | + | + | 48 | |
| ANGIECTASIS | | | | | | 3 | | | | | | | | 1 | 3.0 |
| PARS DISTALIS; CYST | | | | | | | | | | | | | | 2 | |
| PARS DISTALIS; HYPERPLASIA | | | | | | | | | | | | | | 1 | 2.0 |
| THYROID GLAND | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| FOLLICLE; DILATION | | | | | | | | | | | | | | 2 | 1.0 |
| BILATERAL, FOLLICLE, EPITHELIUM; HYPERPLASIA | | | | | | | | | | | | | | 1 | 4.0 |

GENERAL BODY SYSTEM

NONE

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Female: Core Animals

| | | | | | | | | | | | | | | | |
|--|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| B6C3F1/N Mouse Female
0 ppm | | S | S | S | S | S | S | S | S | S | S | S | S | S | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | |
| | | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 4 | 7 | |
| | | 3 | 3 | 1 | 3 | 5 | 3 | 3 | 3 | 5 | 3 | 3 | 5 | 3 | |
| | | 1 | 3 | 9 | 1 | 7 | 2 | 2 | 2 | 9 | 2 | 3 | 0 | 3 | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | *TOTALS |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | |
| | | | | | | | | | | | | | | | |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | |
| BONE MARROW | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| ANGIECTASIS | | | | | | | | | | | | | | | 1 3.0 |
| HEPATOBIILIARY SYSTEM | | | | | | | | | | | | | | | |
| GALLBLADDER | | + | + | + | + | + | + | + | + | + | + | + | + | + | 48 |
| LIVER | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| BASOPHILIC FOCUS | | | | | | | | | | | | | | | 1 |
| CLEAR CELL FOCUS | | | | | | | | | | | | | | | 1 |
| EOSINOPHILIC FOCUS | | | | | | | | | | | | | | | 1 |
| FATTY CHANGE; DIFFUSE | | | | | | | | | | | | | | | 2 1.0 |
| INFILTRATION CELLULAR;
MONONUCLEAR CELL | | | | | | | | | | | | | | | 1 2.0 |
| INFLAMMATION; FOCAL | | | | | | | | | | | | | | | 3 1.3 |
| MIXED CELL FOCUS | | | | | | | | | | | | | | | 1 |
| NECROSIS | | | | | | | | | | | | | | | 2 2.0 |
| POLYARTERITIS NODOSA | | | | | | | | | | | | | | | 1 1.0 |
| TENSION LIPIDOSIS | | 1 | | | | | | | | | | | | | 3 1.0 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Female: Core Animals

B6C3F1/N Mouse Female
0 ppm

DAY ON TEST

ANIMAL ID

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 4 | 7 | | |
| 3 | 3 | 1 | 3 | 5 | 3 | 3 | 3 | 5 | 3 | 3 | 5 | 3 | | |
| 1 | 3 | 9 | 1 | 7 | 2 | 2 | 2 | 9 | 2 | 3 | 0 | 3 | | |
| 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 | 2 | 2 | 2 | 2 | | |
| 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |

*TOTALS

IMMUNE SYSTEM

| | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| LYMPH NODE | | | | | | | | | | | | | | 2 | |
| LYMPH NODE, BRONCHIAL | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | |
| HYPERPLASIA; LYMPHOCYTE | | | | | | | | | | | | | | 4 | 3.3 |
| LYMPH NODE, MANDIBULAR | + | + | + | + | + | + | + | N | + | + | N | + | N | 42 | |
| HEMORRHAGE | | | | | | | | | | | | | | 1 | 2.0 |
| HYPERPLASIA; LYMPHOCYTE | | | | | | | | | | | | | | 2 | 2.5 |
| LYMPH NODE, MEDIASTINAL | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| HYPERPLASIA; LYMPHOCYTE | | | | | | | | | | | | | | 2 | 2.0 |
| INFILTRATION CELLULAR; HISTIOCYTE | | | | | | | | | | | | | | 2 | 1.0 |
| LYMPH NODE, MESENTERIC | + | + | + | + | + | + | + | + | + | N | + | + | + | 48 | |
| HEMORRHAGE | | | | | | | | | | | | | | 1 | 2.0 |
| HYPERPLASIA; LYMPHOCYTE | | | | | | | | | | | | | | 2 | 3.5 |
| POLYARTERITIS NODOSA | | | | | | | | | | | | | | 1 | 3.0 |
| SPLEEN | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| EXTRAMEDULLARY HEMATOPOIESIS;
INCREASED | | | | | 3 | | | | | 4 | | | | 7 | 3.6 |
| THYMUS | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | |
|----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| SKIN | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| HYPERKERATOSIS | | | | | | | | | | | | | | 1 | 1.0 |
| ULCER | | | | | | | | | | | | | | 2 | 3.0 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Female: Core Animals

| B6C3F1/N Mouse Female
0 ppm | | | | | | | | | | | | | | | | | *TOTALS |
|--------------------------------|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--|---------|
| | | S | S | S | S | S | S | S | S | S | S | S | S | S | S | | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | D | | |
| | | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 4 | 7 | | | |
| | | 3 | 3 | 1 | 3 | 5 | 3 | 3 | 3 | 5 | 3 | 3 | 5 | 3 | | | |
| | | 1 | 3 | 9 | 1 | 7 | 2 | 2 | 2 | 9 | 2 | 3 | 0 | 3 | | | |
| 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 | | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | | |
| | | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| BONE | | | | | | | | | | | | | | | 1 |
| BONE, FEMUR | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| SKELETAL MUSCLE | | | | | | | | | | | | | | | 2 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | | |
|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|--|
| BRAIN | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| CEREBELLUM; HEMORRHAGE | | | | | | | | | | | | | | 1 | 4.0 | |
| POLYARTERITIS NODOSA | | | | | | | | | | | | | | 3 | 1.3 | |
| NERVE, SCIATIC | | | | | | | | | | | | | | 1 | | |
| NERVE, TRIGEMINAL | | | | | | | | | | | | | | 1 | | |
| SPINAL CORD | | | | | | | | | | | | | | 1 | | |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Female: Core Animals

B6C3F1/N Mouse Female
0 ppm

DAY ON TEST

ANIMAL ID

| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 4 | 7 | | |
| 3 | 3 | 1 | 3 | 5 | 3 | 3 | 3 | 5 | 3 | 3 | 3 | 5 | 3 | | |
| 1 | 3 | 9 | 1 | 7 | 2 | 2 | 2 | 9 | 2 | 3 | 0 | 3 | | | |
| 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 | 2 | 2 | 2 | 2 | 2 | | |
| 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | |

*TOTALS

REPRODUCTIVE SYSTEM

| | | | | | | | | | | | | | | | | |
|-------------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| CLITORAL GLAND | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 47 | |
| DUCT; DILATION | | | | | | | | | | | | | | | 1 | 1.0 |
| MAMMARY GLAND | + | + | + | + | + | + | + | + | N | + | + | + | + | | 48 | |
| DUCT; DILATION | | | | | | | | | | | | | | | 2 | 2.0 |
| HYPERPLASIA; LOBULOALVEOLAR | | | | | | | | | | | | | | | 3 | 1.3 |
| OVARY | + | + | + | + | + | + | + | + | + | + | + | + | + | | 48 | |
| ANGIECTASIS | | | | | | | | | | | | | | | 1 | 4.0 |
| CYST; BURSAL | | | X | X | | | | | | | | | | | 4 | |
| CYST; FOLLICULAR | | | | | | X | X | | | | | | | | 3 | |
| CYST | | | | | | | | | | | | | | | 4 | |
| GRANULOSA CELL; HYPERPLASIA | 2 | | | | | | | | | | | | | | 1 | 2.0 |
| HYPERPLASIA; TUBULOSTROMAL | | | | | | | | | | | | | | | 1 | 1.0 |
| INFLAMMATION; GRANULOMATOUS | | | | | | | | | | | | | | | 1 | 4.0 |
| PIGMENT | | | | | | | | | | | | | | | 1 | 3.0 |
| UTERINE CERVIX | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| UTERUS | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| DILATION | | | | | | | | | | | | 4 | | | 4 | 2.5 |
| ENDOMETRIUM; HYPERPLASIA;
CYSTIC | 1 | 1 | 1 | 3 | 1 | 1 | 1 | 1 | 1 | 1 | 4 | 1 | 2 | | 49 | 1.6 |
| VAGINA | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | 2 | 1.0 |

Study Number: C20302B-01

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Final

Date Report Requested: 08/08/2024

Time Report Requested: 08:59:43

Lab: Battelle with EPL

Female: Core Animals

B6C3F1/N Mouse Female

0 ppm

DAY ON TEST

ANIMAL ID

| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 4 | 7 | | |
| 3 | 3 | 1 | 3 | 5 | 3 | 3 | 3 | 5 | 3 | 3 | 5 | 3 | | |
| 1 | 3 | 9 | 1 | 7 | 2 | 2 | 2 | 9 | 2 | 3 | 0 | 3 | | |
| 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 | 2 | 2 | 2 | 2 | | |
| 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |

*TOTALS

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| LARYNX | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| POLYARTERITIS NODOSA | | | | | | | | | | | | | | 3 | 1.0 |
| LUNG | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| PERIVASCULAR; INFILTRATION
CELLULAR; MONONUCLEAR CELL | | | | | | | | | | | | | | 4 | 1.0 |
| PLEURA; INFLAMMATION; CHRONIC-
ACTIVE | | | | | | | | | | | | | | 1 | 1.0 |
| NOSE | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| FRACTURE | | | | | | | | | | | | | | 1 | |
| RESPIRATORY EPITHELIUM;
HYPERPLASIA | | 1 | 1 | | 1 | 1 | 1 | 1 | | 1 | | | | 19 | 1.0 |
| NASOLACRIMAL DUCT;
INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | 1 | 1.0 |
| OLFACTORY EPITHELIUM;
INFLAMMATION; SUPPURATIVE | | | | | | | | | | | 1 | | | 1 | 1.0 |
| RESPIRATORY EPITHELIUM;
INFLAMMATION; SUPPURATIVE | 1 | | | | | | | | | | | | | 4 | 1.0 |
| TRANSITIONAL EPITHELIUM;
INFLAMMATION; SUPPURATIVE | | | | | | | | | | | 1 | | | 1 | 1.0 |
| OLFACTORY EPITHELIUM;
METAPLASIA; RESPIRATORY | 1 | 1 | | | | 1 | | | | | | | | 7 | 1.0 |
| RESPIRATORY EPITHELIUM;
METAPLASIA; SQUAMOUS | 1 | | | | | | | | | | | | | 2 | 1.0 |
| OLFACTORY EPITHELIUM; NECROSIS | | | | | | | | | | | | | | 1 | 2.0 |
| POLYARTERITIS NODOSA | | | | | | | | | | | | | | 2 | 1.0 |
| TRACHEA | + | + | + | + | + | + | + | + | A | + | + | + | + | 49 | |

| Female: Core Animals | | | | | | | | | | | | | | | | |
|---|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|----|---------|
| B6C3F1/N Mouse Female
0 ppm | DAY ON TEST | S | S | S | S | S | S | S | S | S | S | S | S | S | | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | | |
| | | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 5 | 7 | 7 | 4 | 7 | | |
| | | 3 | 3 | 1 | 3 | 5 | 3 | 3 | 3 | 5 | 3 | 3 | 5 | 3 | | |
| | ANIMAL ID | 1 | 3 | 9 | 1 | 7 | 2 | 2 | 2 | 9 | 2 | 3 | 0 | 3 | | |
| | | 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 | 2 | 2 | 2 | 2 | | |
| | | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | *TOTALS |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | |
| EYE | | + | + | + | + | + | + | + | + | + | + | + | + | + | | 49 |
| LENS; CATARACT | | | | | | | | | | | | | | | 1 | 1.0 |
| POLYARTERITIS NODOSA | | | | | | | | | | | | | | | 1 | 1.0 |
| HARDERIAN GLAND | | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| HYPERPLASIA | | | | | | | | | | | | | | | 3 | 3.3 |
| URINARY SYSTEM | | | | | | | | | | | | | | | | |
| KIDNEY | | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| CHRONIC PROGRESSIVE
NEPHROPATHY | | | | | 1 | | | 2 | | | | | | | 19 | 1.2 |
| RENAL TUBULE; CYST | | | | | | | | | | | | | | | 1 | |
| RENAL TUBULE; HYALINE DROPLET
ACCUMULATION | | | | | | | | | | | | | | | 2 | 3.5 |
| PAPILLA, EPITHELIUM; HYPERPLASIA | | | | | | | | | | | | | | | 1 | 1.0 |
| POLYARTERITIS NODOSA | | | | | | | | | | | | | | | 2 | 1.5 |
| CYTOPLASMIC, RENAL TUBULE;
VACUOLATION | | | | | | | | | | | | | | | 2 | 3.0 |
| URINARY BLADDER | | + | + | + | + | A | + | + | + | I | + | + | + | + | | 45 |
| INFILTRATION CELLULAR;
LYMPHOCYTE | | 1 | | | | | 1 | 1 | 1 | | | | | | 17 | 1.0 |
| INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | | | 1 | 2.0 |
| POLYARTERITIS NODOSA | | | | | | | | | | | | | | | 1 | 1.0 |

Lab: Battelle with EPL

Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Final

Date Report Requested: 08/08/2024

Time Report Requested: 08:59:43

Lab: Battelle with EPL

Female: Core Animals

| B6C3F1/N Mouse Female
100 ppm | | S
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CARDIOVASCULAR SYSTEM

[illegible]

ENDOCRINE SYSTEM

[illegible]

GENERAL BODY SYSTEM

| | |
|--------|---|
| CAVITY | + |
|--------|---|

HEMATOPOIETIC SYSTEM

BONE MARROW +

| | | | Female: Core Animals | |
|--|-------------|-----------|----------------------|
| B6C3F1/N Mouse Female
100 ppm | DAY ON TEST | ANIMAL ID | S | S | | | | |
| | | | D | D | | | |
| | | | 7 | 7 | | |
| | | | 3 | 3 | |
| | | | 2 | 2 | 1 | 0 | 2 | 3 | 3 | 3 | 2 | 1 | 3 | 5 | 2 | 3 | 8 | 3 | 2 | 6 | 2 | 3 | 2 | 6 | 3 | 8 | 6 | 1 | 3 | 3 | 1 | 8 | 9 | 3 | 0 | 2 | 1 | 0 | |
| | | | 0 | 0 | | |
| | | | 0 | 0 | | |
| | | | 2 | 2 | | |
| | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| HEPATOBILIARY SYSTEM | | | |
| GALLBLADDER | | | + | + | + | + | + | + | + | + | + | + | + | + | A | + | N | + | + | |
| EPITHELIUM; HYPERPLASIA | | | 1 |
| LIVER | | | + | + | |
| BASOPHILIC FOCUS; MULTIPLE | | | X |
| BASOPHILIC FOCUS | | | | | | | | | | | | X | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| CLEAR CELL FOCUS | | | | | | | | | | | | X | | | | | | | | | | | X | | | | | | | | | | | | | | | | |
| EOSINOPHILIC FOCUS | | | |
| EXTRAMEDULLARY HEMATOPOIESIS | | | | | | | | | | | | 1 | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | |
| FATTY CHANGE; DIFFUSE | | | |
| INFILTRATION CELLULAR;
MONONUCLEAR CELL | | | | | | | | | | | | 2 | |
| INFLAMMATION; ACUTE | | | |
| INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | 4 | |
| MIXED CELL FOCUS | | | | | | | | | | | | X | |
| NECROSIS | | | | | | | | | | | | 4 | | | | | 4 | | | | | | | | | | | | | | | | | 2 | | | | | |

| Female: Core Animals | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|-------------|-----------|-----|---|---|---|---|---|---|---|---|---|---|---|---|-------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B6C3F1/N Mouse Female
100 ppm | DAY ON TEST | ANIMAL ID | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | |
| | | | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| | | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 |
| | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| | | | 2 | 2 | 1 | 0 | 2 | 3 | 3 | 3 | 2 | 1 | 3 | 5 | 2 | 3 | 3 | 8 | 3 | 2 | 6 | 2 | 6 | 3 | 8 | 6 | 1 | 3 | 1 | 8 | 9 |
| | | | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
| | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | |
| IMMUNE SYSTEM | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LYMPH NODE | | | + + | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LUMBAR; HYPERPLASIA;
LYMPHOCYTE | | | 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PANCREATIC; HYPERPLASIA;
LYMPHOCYTE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LYMPH NODE, BRONCHIAL
HYPERPLASIA; LYMPHOCYTE | | | + | + | + | + | + | + | N | + | + | + | + | + | + | + | + | + | + | N | + | + | N | + | + | + | + | + | + | + | |
| LYMPH NODE, MANDIBULAR
HYPERPLASIA; LYMPHOCYTE | | | + | | | | | | | | | | | | | N + + + + + + + + + + N | | | | | | | | | | | | | | | |
| PIGMENT | | | 4 | | | | | | | | | | | | | 3 3 3 3 | | | | | | | | | | | | | | | |
| LYMPH NODE, MEDIASTINAL
HYPERPLASIA; LYMPHOCYTE | | | + | | | | | | | | | | | | | X 4 3 3 | | | | | | | | | | | | | | | |
| INFILTRATION CELLULAR; HISTIOCYTE | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| LYMPH NODE, MESENTERIC
HYPERPLASIA; LYMPHOCYTE | | | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| INFLAMMATION; SUPPURATIVE
THROMBUS | | | 4 | | | | | | | | | | | | | 3 3 3 3 | | | | | | | | | | | | | | | |
| SPLEEN | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EXTRAMEDULLARY HEMATOPOIESIS;
INCREASED | | | 4 | | | | | | | | | | | | | 4 4 4 4 | | | | | | | | | | | | | | | |
| THYMUS | | | + | + | + | N | + | + | + | N | + | + | N | + | N | + | + | + | + | + | + | + | + | + | + | + | + | + | + | N | |
| ATROPHY | | | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | Female: Core Animals | |
|----------------------------------|-------------|-----------|----------------------|
| B6C3F1/N Mouse Female
100 ppm | DAY ON TEST | ANIMAL ID | S | S | |
| | | | D | D | |
| | | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 5 | 7 | 7 | 7 | 7 | 7 | 7 | 2 | 3 | 7 | 7 | 7 | 7 | 6 | 5 | 7 | 6 | 7 | 7 |
| | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 2 | 3 | 3 | 1 | 3 | 3 | 2 | 3 | 2 | 3 | 6 | 0 | 3 | 3 | 3 | 3 | 6 | 9 | 3 | 5 | 3 | 3 |
| | | | 2 | 2 | 1 | 0 | 2 | 3 | 3 | 2 | 1 | 3 | 5 | 2 | 3 | 8 | 3 | 2 | 6 | 2 | 6 | 3 | 8 | 6 | 1 | 3 | 1 | 8 | 9 | 3 | 0 | 2 | 1 | 0 |
| | | | 0 | 0 |
| | | | 0 | 0 |
| | | | 2 | 2 |
| | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | |
| INTEGUMENTARY SYSTEM | | | |
| SKIN | | | + | + | |
| HYPERKERATOSIS | | | |
| INFLAMMATION; SUPPURATIVE | | | |
| MUSCULOSKELETAL SYSTEM | | | |
| BONE, FEMUR | | | + | + | |
| NERVOUS SYSTEM | | | |
| BRAIN | | | + | + | |
| MEDULLA OBLONGATA; NECROSIS | | | |
| POLYARTERITIS NODOSA | | | |
| THROMBUS | | | |

| Female: Core Animals | | |
|----------------------------------|-------------|-----------|
| B6C3F1/N Mouse Female
100 ppm | DAY ON TEST | ANIMAL ID | S |
| | | | D |
| | | | 7 |
| | | | 3 |
| | | | 2 | 2 | 1 | 0 | 2 | 3 | 3 | 2 | 3 | 3 | 1 | 3 | 5 | 2 | 3 | 3 | 8 | 3 | 2 | 6 | 2 | 6 | 3 | 8 | 6 | 1 | 3 | 3 | 1 | 8 | 9 | 3 |
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| Female: Core Animals | |
|----------------------------------|-------------|
| B6C3F1/N Mouse Female
100 ppm | DAY ON TEST | S | |
| | | D | |
| | | 7 | |
| | | 3 | |
| | | 2 | 2 | 2 | 1 | 0 | 2 | 3 | 3 | 2 | 1 | 3 | 5 | 2 | 3 | 2 | 3 | 8 | 3 | 2 | 6 | 2 | 6 | 3 | 8 | 6 | 1 | 3 | 3 | 1 | 8 | 9 | 3 | 0 |
| | ANIMAL ID | 0 | |
| | | 0 | |
| | | 2 | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

| RESPIRATORY SYSTEM |
|--|---|
| LARYNX | + |
| FOREIGN BODY | | | | X | |
| GLAND; INFLAMMATION;
SUPPURATIVE | | | | | | | | | | | 1 | | | | | | | | | | | | | | | | | | | 1 | | | |
| INFLAMMATION; SUPPURATIVE |
| POLYARTERITIS NODOSA | 1 | | 2 | |
| LUNG | + |
| EDEMA | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| HEMORRHAGE | | | | | | | | | | | | | 1 | |
| ALVEOLAR/BRONCHIOLAR,
EPITHELIUM; HYPERPLASIA | | | 1 | | | | | | | | | | | | | 4 | | | | | 1 | 1 | | | | 4 | | 2 | 2 | | | | |
| ALVEOLUS; INFILTRATION CELLULAR;
HISTIOCYTE | | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | | |
| PERIVASCULAR; INFLAMMATION;
ACUTE |
| PLEURA; INFLAMMATION; CHRONIC-
ACTIVE | 2 | | | | | | |
| MINERAL | | | | | | | | | | | | | | | 3 | | | | | | | | | | | | | | | | | | |
| NOSE | + |
| FOREIGN BODY | |
| FRACTURE | | X | | | | | | | | | | | |
| NASOLACRIMAL DUCT;
INFLAMMATION; SUPPURATIVE |
| RESPIRATORY EPITHELIUM;
INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | 2 | | | | | | | | | | | | | | | | | | 2 | | |

| Female: Core Animals | | | |
|--------------------------------------|-------------|-----------|--|
| B6C3F1/N Mouse Female
100 ppm | DAY ON TEST | ANIMAL ID | S | | |
| | | | D | | |
| | | | 7 | | |
| | | | 3 | | |
| | | | 2 | 2 | 1 | 0 | 2 | 3 | 3 | 2 | 1 | 3 | 5 | 2 | 3 | 8 | 3 | 2 | 6 | 2 | 6 | 3 | 8 | 6 | 1 | 3 | 1 | 8 | 9 | 3 | 0 | 2 | 1 | 0 | |
| | | | 0 | | |
| | | | 0 | | |
| | | | 2 | | |
| | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | | |
| URINARY SYSTEM | | | |
| KIDNEY | | | + | | |
| ATROPHY | | | |
| PELVIS; BACTERIA | | | |
| CHRONIC PROGRESSIVE
NEPHROPATHY | | | |
| PELVIS; DILATION | | | |
| FIBROSIS | | | |
| INFARCT | | | |
| INFILTRATION CELLULAR;
LYMPHOCYTE | | | |
| PELVIS; INFLAMMATION; CHRONIC | | | |
| PELVIS; INFLAMMATION;
SUPPURATIVE | | | |
| METAPLASIA; OSSEOUS | | | |
| RENAL TUBULE; PIGMENT | | | |
| URINARY BLADDER | | | + | | |
| UROTHELIUM; HYPERPLASIA | | | |
| INFILTRATION CELLULAR;
LYMPHOCYTE | | | |
| INFLAMMATION; CHRONIC-ACTIVE | | | |
| INFLAMMATION; SUPPURATIVE | | | |
| POLYARTERITIS NODOSA | | | |

| Female: Core Animals | | | | | | | | | | | | | | | |
|--------------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| B6C3F1/N Mouse Female
100 ppm | DAY ON TEST | S | S | S | S | S | S | S | S | S | S | S | S | S | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | |
| | | 6 | 7 | 4 | 7 | 7 | 7 | 6 | 5 | 6 | 7 | 6 | 7 | 7 | |
| | | 8 | 3 | 3 | 3 | 1 | 3 | 5 | 0 | 4 | 3 | 8 | 0 | 3 | |
| | ANIMAL ID | 9 | 2 | 5 | 2 | 5 | 3 | 7 | 2 | 0 | 3 | 9 | 2 | 3 | |
| | | 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 | 2 | 2 | 2 | 3 | |
| | | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS |
| ALIMENTARY SYSTEM | | | | | | | | | | | | | | | |
| ESOPHAGUS | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| INTESTINE, LARGE, CECUM | | + | + | A | + | + | + | + | + | + | + | + | + | + | 46 |
| INTESTINE, LARGE, COLON | | + | + | A | + | + | + | + | + | + | + | + | + | + | 48 |
| INTESTINE, LARGE, RECTUM | | + | + | A | + | + | + | + | + | + | + | + | + | + | 48 |
| INTESTINE, SMALL, DUODENUM | | + | + | A | + | + | + | + | + | + | + | + | + | + | 48 |
| INTESTINE, SMALL, ILEUM | | + | + | A | + | + | + | + | + | + | + | + | + | + | 47 |
| CELLULARITY INCREASED;
LYMPHOCYTE | | | | | | | | | | | | | | | 1 3.0 |
| INTESTINE, SMALL, JEJUNUM | | + | + | A | + | + | + | + | + | + | + | + | + | + | 47 |
| MESENTERY | | | + | | | + | + | | | | + | | | | 7 |
| ADIPOSE TISSUE; NECROSIS | | | 3 | | | 3 | 3 | | | | 3 | | | | 6 3.0 |
| PANCREAS | | + | + | A | + | + | + | + | + | + | + | + | + | + | 48 |
| SALIVARY GLAND | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| STOMACH, FORESTOMACH | | + | + | A | + | + | + | + | + | + | + | + | + | + | 49 |
| STOMACH, GLANDULAR | | + | + | A | + | + | + | + | + | + | + | + | + | + | 49 |

| Female: Core Animals | | | | | | | | | | | | | | | |
|--|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| B6C3F1/N Mouse Female
100 ppm | DAY ON TEST | S | S | S | S | S | S | S | S | S | S | S | S | S | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | |
| | | 6 | 7 | 4 | 7 | 7 | 7 | 6 | 5 | 6 | 7 | 6 | 7 | 7 | |
| | | 8 | 3 | 3 | 3 | 1 | 3 | 5 | 0 | 4 | 3 | 8 | 0 | 3 | |
| | ANIMAL ID | 9 | 2 | 5 | 2 | 5 | 3 | 7 | 2 | 0 | 3 | 9 | 2 | 3 | |
| | | 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 | 2 | 2 | 2 | 3 | |
| | | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS |
| CARDIOVASCULAR SYSTEM | | | | | | | | | | | | | | | |
| AORTA | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| HEART | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| BACTERIA | | | | | | | | | | X | | | | | 1 |
| CARDIOMYOPATHY | | 1 | 3 | | | | 1 | | | 1 | 1 | | 1 | 1 | 23 1.6 |
| ATRIUM; INFLAMMATION;
SUPPURATIVE | | | | | | | | | | | | | | | 1 4.0 |
| MYOCARDIUM; INFLAMMATION;
SUPPURATIVE | | | | | | | | | | | | | | | 1 3.0 |
| VALVE; PIGMENT | | | | | | | | | | | | | | | 2 4.0 |
| POLYARTERITIS NODOSA | | | | | | | | | | | | | | | 2 2.0 |
| ATRIUM; THROMBUS | | | X | | | | | | | | | | | | 1 |
| VALVE; THROMBUS | | | | | | | | | | | | | | | 1 |
| ENDOCRINE SYSTEM | | | | | | | | | | | | | | | |
| ADRENAL GLAND | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| AMYLOID | | | | | | | | | | | | | | | 1 |
| PARATHYROID GLAND | | + | + | N | + | + | + | + | + | + | + | + | + | + | 44 |
| PITUITARY GLAND | | + | + | N | + | + | + | + | + | + | N | + | + | + | 46 |
| PARS DISTALIS; HYPERPLASIA | | | | | 4 | | | | | | | | | | 2 3.0 |
| THYROID GLAND | | + | + | A | + | + | + | + | + | + | + | + | + | + | 49 |
| GENERAL BODY SYSTEM | | | | | | | | | | | | | | | |
| CAVITY | | | | | | | | | | | | | | | 1 |
| HEMATOPOIETIC SYSTEM | | | | | | | | | | | | | | | |
| BONE MARROW | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |

| Female: Core Animals | | | | | | | | | | | | | | | | |
|--|-------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------|-----|
| B6C3F1/N Mouse Female
100 ppm | DAY ON TEST | S
D
6
8
9 | S
D
7
3
2 | S
D
4
3
5 | S
D
7
3
2 | S
D
7
1
5 | S
D
7
3
3 | S
D
6
5
7 | S
D
5
0
2 | S
D
6
4
0 | S
D
7
3
3 | S
D
6
8
9 | S
D
7
0
2 | S
D
7
3
3 | | |
| | | 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 | 2 | 2 | 2 | 3 | | |
| | ANIMAL ID | 8
8
8 | 8
8
9 | 9
9
0 | 9
9
1 | 9
9
2 | 9
9
3 | 9
9
4 | 9
9
5 | 9
9
6 | 9
9
7 | 9
9
8 | 9
9
9 | 0
0
0 | *TOTALS | |
| HEPATOBIILIARY SYSTEM | | | | | | | | | | | | | | | | |
| GALLBLADDER | | + | + | A | + | + | + | + | + | + | + | + | + | + | 47 | |
| EPIITHELIUM; HYPERPLASIA | | | | | | | | | | | | | | | 1 | 1.0 |
| LIVER | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| BASOPHILIC FOCUS; MULTIPLE | | | | | | | | | | | | | | | 1 | |
| BASOPHILIC FOCUS | | | | | | | | | | | | | | | 3 | |
| CLEAR CELL FOCUS | | | | | | | | | | | | | | | 2 | |
| EOSINOPHILIC FOCUS | | X | | X | | | | | | | | | | | 2 | |
| EXTRAMEDULLARY HEMATOPOIESIS | | | | | | | | | | | | | | | 2 | 1.5 |
| FATTY CHANGE; DIFFUSE | | | | | | | | 4 | | | | | | | 1 | 4.0 |
| INFILTRATION CELLULAR;
MONONUCLEAR CELL | | | | | | | | | | | | | | | 1 | 2.0 |
| INFLAMMATION; ACUTE | | 3 | | | | | | | | | | | | | 1 | 3.0 |
| INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | | | 1 | 4.0 |
| MIXED CELL FOCUS | | | | | | | | | | | | | | | 2 | |
| NECROSIS | | | | | | | 4 | | | | | | | | 4 | 3.5 |

Study Number: C20302B-01

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Final

Date Report Requested: 08/08/2024

Time Report Requested: 08:59:43

Lab: Battelle with EPL

Female: Core Animals

B6C3F1/N Mouse Female

100 ppm

DAY ON TEST

ANIMAL ID

| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 6 | 7 | 4 | 7 | 7 | 7 | 6 | 5 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | |
| 8 | 3 | 3 | 3 | 1 | 3 | 5 | 0 | 4 | 3 | 8 | 0 | 3 | | | |
| 9 | 2 | 5 | 2 | 5 | 3 | 7 | 2 | 0 | 3 | 9 | 2 | 3 | | | |
| 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 | 2 | 2 | 2 | 2 | | | |
| 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | | | |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | |

*TOTALS

IMMUNE SYSTEM

| | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|--|----|-----|
| LYMPH NODE | + | | | | | | | | | | | | | | 4 | |
| LUMBAR; HYPERPLASIA;
LYMPHOCYTE | | | | | | | | | | | | | | | 1 | 3.0 |
| PANCREATIC; HYPERPLASIA;
LYMPHOCYTE | 4 | | | | | | | | | | | | | | 1 | 4.0 |
| LYMPH NODE, BRONCHIAL | + | + | N | + | + | + | + | + | + | + | + | + | + | | 46 | |
| HYPERPLASIA; LYMPHOCYTE | | | | | | | | | | | | | | | 1 | 3.0 |
| LYMPH NODE, MANDIBULAR | + | + | + | + | + | + | + | + | N | + | + | + | + | | 47 | |
| HYPERPLASIA; LYMPHOCYTE | | | | | | | | | | | | | | | 4 | 3.3 |
| PIGMENT | | | | | | | | | | | | | | | 1 | |
| LYMPH NODE, MEDIASTINAL | + | + | A | + | + | + | + | N | + | + | + | + | + | | 47 | |
| HYPERPLASIA; LYMPHOCYTE | | | | | | | | | | | | | | | 3 | 3.3 |
| INFILTRATION CELLULAR; HISTIOCYTE | | | | | | | | | | | | | | | 1 | 2.0 |
| LYMPH NODE, MESENTERIC | + | + | N | + | + | + | + | + | + | + | + | + | + | | 48 | |
| HYPERPLASIA; LYMPHOCYTE | | | | | | | | | | | | | | | 2 | 3.0 |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | 1 | 4.0 |
| THROMBUS | | | | | | | | | | | | | | | 1 | |
| SPLEEN | + | + | A | + | + | + | + | + | + | + | + | + | + | | 48 | |
| EXTRAMEDULLARY HEMATOPOIESIS;
INCREASED | 3 | | | | | | | | | | | | | | 6 | 3.8 |
| THYMUS | N | + | A | + | + | + | + | N | + | + | + | + | + | | 41 | |
| ATROPHY | | | | | | | | | | | | | 2 | | 2 | 2.0 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Female: Core Animals

| B6C3F1/N Mouse Female
100 ppm | | S
D
6
8
9 | S
D
7
3
2 | S
D
4
3
5 | S
D
7
3
2 | S
D
7
1
5 | S
D
7
3
3 | S
D
6
5
7 | S
D
5
0
2 | S
D
6
4
0 | S
D
7
3
3 | S
D
6
8
9 | S
D
7
0
2 | S
D
7
3
3 | *TOTALS | | |
|----------------------------------|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------|---|-----|
| 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 | 0 | 0 | 0 | | | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | | | |
| | | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | |
| INTEGUMENTARY SYSTEM | | | | | | | | | | | | | | | | | |
| SKIN | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| HYPERKERATOSIS | | | | | | | | | | | | | | | | 1 | 3.0 |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | | 1 | 3.0 |
| MUSCULOSKELETAL SYSTEM | | | | | | | | | | | | | | | | | |
| BONE, FEMUR | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| NERVOUS SYSTEM | | | | | | | | | | | | | | | | | |
| BRAIN | | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| MEDULLA OBLONGATA; NECROSIS | | | | | | | | | | | | | | | | 1 | 2.0 |
| POLYARTERITIS NODOSA | | | | | | | | | | | | | | | | 1 | 1.0 |
| THROMBUS | | | | | | | | | | | | | | | | 1 | |

Study Number: C20302B-01

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Final

Date Report Requested: 08/08/2024

Time Report Requested: 08:59:43

Lab: Battelle with EPL

Female: Core Animals

B6C3F1/N Mouse Female

100 ppm

DAY ON TEST

ANIMAL ID

| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 6 | 7 | 4 | 7 | 7 | 7 | 6 | 5 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | |
| 8 | 3 | 3 | 3 | 1 | 3 | 5 | 0 | 4 | 3 | 8 | 0 | 3 | | | |
| 9 | 2 | 5 | 2 | 5 | 3 | 7 | 2 | 0 | 3 | 9 | 2 | 3 | | | |
| 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 | 2 | 2 | 2 | 2 | 2 | 3 | |
| 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | |

*TOTALS

REPRODUCTIVE SYSTEM

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|--|
| CLITORAL GLAND | + | + | N | + | + | + | + | + | + | + | + | N | + | 45 | | |
| MAMMARY GLAND | N | + | + | + | + | + | + | + | + | + | + | N | + | 46 | | |
| DUCT; DILATION | | | | | | | | | | | | | 2 | 4 | 1.8 | |
| OVARY | + | + | N | + | + | + | + | + | + | + | + | + | + | 49 | | |
| ATROPHY | | | | | | | | | | | | | 2 | 1 | 2.0 | |
| CYST; BURSAL | | | | | | | | | | | | | | 2 | | |
| CYST; EPITHELIAL | | | | | | | | | | | | | | 1 | | |
| CYST; RETE OVARI | | | | | | | | | | | | | | 1 | | |
| CYST | | | | | | | | | | | | | | 2 | | |
| BILATERAL; HYPERPLASIA;
TUBULOSTROMAL | | | | | | | | | | | | | | 8 | 1.4 | |
| HYPERPLASIA; TUBULOSTROMAL | | | | 1 | | | | 2 | | | | | 1 | 10 | 1.7 | |
| PARAOVARIAN TISSUE;
INFLAMMATION; CHRONIC-ACTIVE | | | | | | | | | | | | | | 1 | 2.0 | |
| THROMBUS | | X | | | | | | | | | | | | 2 | | |
| UTERINE CERVIX | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| UTERUS | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| ANGIECTASIS | | | | | 4 | | | | | | | | | 1 | 4.0 | |
| DILATION | | | | | | | | | | | | | | 1 | 4.0 | |
| ENDOMETRIUM; HYPERPLASIA;
CYSTIC | 2 | 2 | 1 | 2 | 3 | 2 | 1 | 2 | 2 | 2 | 1 | 3 | 3 | 47 | 1.5 | |
| THROMBUS | | | | | | | | | | | | X | | 1 | | |
| VAGINA | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Female: Core Animals

B6C3F1/N Mouse Female
100 ppm

DAY ON TEST

ANIMAL ID

| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 6 | 7 | 4 | 7 | 7 | 7 | 6 | 5 | 6 | 7 | 6 | 7 | 7 | 7 | 7 | 7 |
| 8 | 3 | 3 | 3 | 1 | 3 | 5 | 0 | 4 | 3 | 8 | 0 | 3 | 3 | 3 | 3 |
| 9 | 2 | 5 | 2 | 5 | 3 | 7 | 2 | 0 | 3 | 9 | 2 | 3 | 3 | 3 | 3 |
| 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 | 2 | 2 | 2 | 2 | 2 | 3 | 3 |
| 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | 0 | 0 |

*TOTALS

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| LARYNX | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 49 |
| FOREIGN BODY | | | | | | | | | | | | | | | 1 |
| GLAND; INFLAMMATION;
SUPPURATIVE | | | | | | | | | | | | | | | 2 1.0 |
| INFLAMMATION; SUPPURATIVE | 1 | | | | | | | 1 | | | | | | | 2 1.0 |
| POLYARTERITIS NODOSA | | | | | | | | | | | | | | | 2 1.5 |
| LUNG | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| EDEMA | | | | | | | | | | | | | | | 1 3.0 |
| HEMORRHAGE | | | | | | | | | | | | | | | 1 1.0 |
| ALVEOLAR/BRONCHIOLAR,
EPITHELIUM; HYPERPLASIA | | | | 3 | | 1 | | | 2 | | | | | | 10 2.1 |
| ALVEOLUS; INFILTRATION CELLULAR;
HISTIOCYTE | | 4 | | | | | | | | | | | | | 2 3.0 |
| PERIVASCULAR; INFLAMMATION;
ACUTE | | | 3 | | | | | | | | | | | | 1 3.0 |
| PLEURA; INFLAMMATION; CHRONIC-
ACTIVE | | | | | | | | | | | | | | | 1 2.0 |
| MINERAL | | | | | | | | | | | | | | | 1 3.0 |
| NOSE | + | + | A | + | + | + | + | + | + | + | + | + | + | + | 49 |
| FOREIGN BODY | | | | | | | | | | | | | X | | 1 |
| FRACTURE | | | | | | | | | | | | | | | 1 |
| NASOLACRIMAL DUCT;
INFLAMMATION; SUPPURATIVE | | 2 | | | | | | | | | | | | | 1 2.0 |
| RESPIRATORY EPITHELIUM;
INFLAMMATION; SUPPURATIVE | | 1 | | | | | | | | | | | | | 5 2.0 |

Female: Core Animals

| B6C3F1/N Mouse Female
100 ppm | | DAY ON TEST | S | S | S | S | S | S | S | S | S | S | S | S | S | *TOTALS | |
|---|--|---------------------------|---|---|---|---|---|---|---|---|---|---|---|---|----|---------|-----|
| | | | D | D | D | D | D | D | D | D | D | D | D | D | | | |
| | | | 6 | 7 | 4 | 7 | 7 | 7 | 6 | 5 | 6 | 7 | 6 | 7 | 7 | | |
| | | | 8 | 3 | 3 | 3 | 1 | 3 | 5 | 0 | 4 | 3 | 8 | 0 | 3 | | |
| | | | 9 | 2 | 5 | 2 | 5 | 3 | 7 | 2 | 0 | 3 | 9 | 2 | 3 | | |
| 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 | | |
| | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | | |
| | | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | 0 | | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 0 | | |
| RESPIRATORY EPITHELIUM;
METAPLASIA; SQUAMOUS | | 1 | | | | | | | | | | | | | 6 | 1.3 | |
| TRACHEA | | + + + + + + + + + + + + + | | | | | | | | | | | | | 50 | | |
| SPECIAL SENSES SYSTEM | | | | | | | | | | | | | | | | | |
| EYE | | + + + + + + + + + + + + + | | | | | | | | | | | | | 50 | | |
| LENS; CATARACT | | | | | | | | | | | | | | | 1 | 1.0 | |
| CORNEA; INFLAMMATION;
SUPPURATIVE | | | | | | | | | | | | | | | 1 | 4.0 | |
| HARDERIAN GLAND | | + + + + + + + + + + + + + | | | | | | | | | | | | | 49 | | |
| HYPERPLASIA | | | | | | | | | | | | | | | 4 | 1 | 2.8 |
| ZYMBAL'S GLAND | | | | | | | | | | | | | | | 1 | | |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Female: Core Animals

B6C3F1/N Mouse Female
100 ppm

DAY ON TEST

ANIMAL ID

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 6 | 7 | 4 | 7 | 7 | 7 | 6 | 5 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 |
| 8 | 3 | 3 | 3 | 1 | 3 | 5 | 0 | 4 | 3 | 8 | 0 | 3 | 8 | 0 | 3 |
| 9 | 2 | 5 | 2 | 5 | 3 | 7 | 2 | 0 | 3 | 9 | 2 | 3 | 9 | 2 | 3 |
| 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 | 2 | 2 | 2 | 2 | 2 | 2 | 3 |
| 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 |

*TOTALS

URINARY SYSTEM

KIDNEY

+ + A + + + + + + + + + +

49

ATROPHY

4

1 4.0

PELVIS; BACTERIA

1

CHRONIC PROGRESSIVE
NEPHROPATHY

1

1

2

1

18 1.4

PELVIS; DILATION

4 1.8

FIBROSIS

4

1 4.0

INFARCT

2

4 2.5

INFILTRATION CELLULAR;
LYMPHOCYTE

1 2.0

PELVIS; INFLAMMATION; CHRONIC

1 3.0

PELVIS; INFLAMMATION;
SUPPURATIVE

1 4.0

METAPLASIA; OSSEOUS

1

RENAL TUBULE; PIGMENT

1 3.0

URINARY BLADDER

+ + A + + + N + + + + + +

43

UROTHELIUM; HYPERPLASIA

1

5 1.4

INFILTRATION CELLULAR;
LYMPHOCYTE

2

1

13 1.2

INFLAMMATION; CHRONIC-ACTIVE

1 1.0

INFLAMMATION; SUPPURATIVE

1 1.0

POLYARTERITIS NODOSA

1 2.0

Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Final

Date Report Requested: 08/08/2024

Time Report Requested: 08:59:43

Lab: Battelle with EPL

Female: Core Animals

[illegible]

ALIMENTARY SYSTEM

[illegible]

| Female: Core Animals | | |
|--------------------------------------|--|-----------------------|
| B6C3F1/N Mouse Female
200 ppm | | |
| | | |
| | | |
| | | |
| | | |
| DAY ON TEST | | S
D
7
3
2 | S
D
6
0
3 | S
D
7
0
5 | S
D
3
3
5 | S
D
7
3
3 | S
D
4
0
8 | S
D
7
3
2 | S
D
7
3
3 | S
D
7
6
2 | S
D
7
3
1 | S
D
7
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3 | S
D
7
3
2 | S
D
7
3
1 | S
D
7
3
3 | S
D
7
3
2 | S
D
7
3
3 | S
D
7
3
3 | S
D
7
3
9 | S
D
7
3
4 | S
D
7
3
2 | S
D
7
3
1 | S
D
7
3
3 | S
D
7
3
6 | S
D
7
3
3 | S
D
7
3
2 | S
D
7
6
9 | S
D
7
7
5 | S
D
7
7
2 | S
D
7
7
1 | S
D
7
4
8 | S
D
7
7
3 | S
D
7
5
8 | S
D
7
3
8 | S
D
7
6
3 | | | | |
| ANIMAL ID | | 0
0
3
0
3 | 0
0
3
0
4 | 0
0
3
0
5 | 0
0
3
0
6 | 0
0
3
0
7 | 0
0
3
0
8 | 0
0
3
0
9 | 0
0
3
1
0 | 0
0
3
1
1 | 0
0
3
1
2 | 0
0
3
1
3 | 0
0
3
1
4 | 0
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5 | 0
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3
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6 | 0
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3
1
7 | 0
0
3
1
8 | 0
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3
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9 | 0
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1 | 0
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3 | 0
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4 | 0
0
3
2
5 | 0
0
3
2
6 | 0
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3
2
7 | 0
0
3
2
8 | 0
0
3
2
9 | 0
0
3
3
0 | 0
0
3
3
1 | 0
0
3
3
2 | 0
0
3
3
3 | 0
0
3
3
4 | 0
0
3
3
5 | 0
0
3
3
6 | 0
0
3
3
7 | 0
0
3
3
8 | 0
0
3
3
9 | 0
0
3
3
0 |
| CARDIOVASCULAR SYSTEM | | |
| AORTA | | |
| HEART | | |
| CARDIOMYOPATHY | | |
| ATRIUM; INFLAMMATION;
SUPPURATIVE | | |
| ATRIOVENTRICULAR VALVE;
THROMBUS | | |
| ATRIUM; THROMBUS | | |
| ENDOCRINE SYSTEM | | |
| ADRENAL GLAND | | |
| ACCESSORY ADRENOCORTICAL
NODULE | | |
| HEMORRHAGE | | |
| MEDULLA; HYPERPLASIA | | |
| SUBCAPSULAR; HYPERPLASIA | | |
| HYPERPLASIA; SUBCAPSULAR | | |
| CORTEX; NECROSIS | | |
| PARATHYROID GLAND | | |
| PITUITARY GLAND | | |
| PARS DISTALIS; HYPERPLASIA | | |
| THYROID GLAND | | |
| POLYARTERITIS NODOSA | | |
| GENERAL BODY SYSTEM | | |
| CAVITY | | |

Species/Strain: Mouse/B6C3F1/N

Final

Lab: Battelle with EPL

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Female: Core Animals

| | | | | |
|----------------------------------|--|-----------------------|------------------|---|
| B6C3F1/N Mouse Female
200 ppm | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| DAY ON TEST | | S
D
7
3
2 | S
D
7
0
3 | S
D
7
0
5 | S
D
7
3
5 | S
D
7
3
3 | S
D
7
4
0 | S
D
7
7
3 | S
D
7
7
2 | S
D
7
7
3 | S
D
7
6
3 | S
D
7
7
6 | S
D
7
7
1 | S
D
7
7
3 | S
D
7
7
3 | S
D
7
7
3 | S
D
7
7
3 | S
D
7
7
3 | S
D
7
3
9 | S
D
7
3
3 | S
D
7
3
3 | S
D
7
5
6 | S
D
7
6
9 | S
D
7
7
1 | S
D
7
7
3 | S
D
7
7
3 | S
D
7
7
3 | S
D
7
6
6 | S
D
7
7
2 | S
D
7
7
1 | S
D
7
4
8 | S
D
7
7
3 | S
D
7
7
3 | S
D
7
5
8 | S
D
7
3
3 | S
D
7
3
8 | | |
| ANIMAL ID | | 0
3
0
3 | 0
0
3
0 | 0
0
3
0 | 0
0
3
0 | 0
0
3
0 | 0
0
3
0 | 0
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4 | 0
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4 | 0
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4 | 0
0
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4 | 0
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4 | 0
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4 | 0
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3
4 | 0
0
3
4 | 0
0
3
4 | 0
0
3
5 | 0
0
3
6 | 0
0
3
7 | |
| | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 2 | 4 | 5 | 6 | 0 | 1 | 2 | 3 | 5 | 7 | 0 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 |
| NERVOUS SYSTEM | | | | |
| BRAIN | | + | | |
| CEREBRUM; MINERAL | | | | |
| MINERAL | | | | |

| | | | Female: Core Animals | |
|---|-------------|-----------|----------------------|
| B6C3F1/N Mouse Female
200 ppm | DAY ON TEST | ANIMAL ID | S | S | | | | |
| | | | D | D | | | |
| | | | 7 | 6 | 7 | 3 | 7 | 4 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 4 | 7 | 7 | 5 | 7 | 6 |
| | | | 3 | 0 | 0 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 6 | 3 | 1 | 3 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 6 | 9 | 1 | 3 | 3 | 3 | 3 | 3 | 2 | 1 | 4 | 8 | 3 | 3 | 8 | 3 |
| | | | 2 | 3 | 5 | 5 | 3 | 8 | 2 | 3 | 2 | 0 | 2 | 0 | 2 | 1 | 3 | 2 | 3 | 3 | 4 | 2 | 1 | 3 | 3 | 7 | 6 | 3 | 3 | 2 | 9 | 5 | 4 | 4 | 3 | 1 | 1 | 1 | 3 | |
| | | | 0 | 0 | |
| | | | 0 | 0 | |
| | | | 3 | 3 | 6 | | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 7 | 1 | | |
| | | | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 2 | 4 | 5 | 6 | 0 | 1 | 2 | 3 | 5 | 7 | 0 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | |
| REPRODUCTIVE SYSTEM | | | |
| CLITORAL GLAND | | | |
| MAMMARY GLAND | | | |
| OVARY | | | |
| ANGIECTASIS | | | |
| CYST; MULTIPLE | | | |
| CYST | | | |
| BILATERAL; HYPERPLASIA;
TUBULOSTROMAL | | | |
| HYPERPLASIA; TUBULOSTROMAL | | | |
| INFILTRATION CELLULAR;
LYMPHOHISTIOCYTIC | | | |
| INFLAMMATION; SUPPURATIVE | | | |
| MINERAL | | | |
| POLYARTERITIS NODOSA | | | |
| THROMBUS | | | |
| UTERINE CERVIX | | | |
| UTERUS | | | |
| DILATION | | | |
| ENDOMETRIUM; HYPERPLASIA;
CYSTIC | | | |
| VAGINA | | | |
| HEMORRHAGE | | | |
| INFLAMMATION; SUPPURATIVE | | | |

| Female: Core Animals | | |
|--|-------------|--------|
| B6C3F1/N Mouse Female
200 ppm | DAY ON TEST | S | S | | |
| | | D | D | | |
| | | 7 | 6 | 7 | 3 | 7 | 4 | 7 | 7 | 7 | 7 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 3 | 7 | 7 | 5 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 6 | |
| | | 3 | 0 | 0 | 3 | 3 | 0 | 3 | 3 | 3 | 3 | 6 | 3 | 1 | 3 | 3 | 3 | 3 | 9 | 3 | 3 | 3 | 6 | 9 | 1 | 3 | 3 | 3 | 3 | 3 | 6 | 2 | 1 | 4 | 8 | 3 |
| | | 2 | 3 | 5 | 5 | 3 | 8 | 2 | 3 | 3 | 2 | 0 | 2 | 0 | 2 | 1 | 3 | 2 | 3 | 3 | 4 | 2 | 1 | 3 | 7 | 6 | 3 | 3 | 2 | 9 | 5 | 4 | 3 | 1 | 3 | 8 |
| ANIMAL ID | 0 | 0 | 0 | | |
| | 0 | 0 | 0 | | |
| | 3 | 3 | 3 | 6 | | |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5 | 7 | |
| | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 9 | 2 | 4 | 5 | 6 | 0 | 1 | 2 | 3 | 5 | 7 | 0 | 1 | 2 | 4 | 5 | 6 | 7 | 8 | 9 | 0 |
| RESPIRATORY SYSTEM | | |
| LARYNX | | + |
| INFLAMMATION; SUPPURATIVE | | 1 |
| LUNG | | + |
| HEMORRHAGE | | |
| ALVEOLAR/BRONCHIOLAR, EPITHELIUM; HYPERPLASIA | | 211142 | |
| PERIVASCULAR; INFILTRATION CELLULAR; LYMPHOHISTIOCYTIC | | |
| PLEURA; INFILTRATION CELLULAR; MONONUCLEAR CELL | | 2 |
| NOSE | | + |
| STENO'S GLAND; ATROPHY | | 1111 |
| GLAND; HYALINE DROPLET ACCUMULATION | | |
| RESPIRATORY EPITHELIUM; HYPERPLASIA | | 111 |
| NASOLACRIMAL DUCT; INFLAMMATION; SUPPURATIVE | | 3 |
| RESPIRATORY EPITHELIUM; INFLAMMATION; SUPPURATIVE | | 21111 | |
| OLFACTORY EPITHELIUM; METAPLASIA; RESPIRATORY | | 1111 |
| RESPIRATORY EPITHELIUM; METAPLASIA; SQUAMOUS | | 1111 |
| TRACHEA | | + |

Lab: Battelle with EPL

Female: Core Animals

| | | | | | |
|----------------------------------|-------------|---|---|---|---------|
| B6C3F1/N Mouse Female
200 ppm | DAY ON TEST | S | S | S | *TOTALS |
| | | D | D | D | |
| | | 7 | 7 | 7 | |
| | | 3 | 3 | 3 | |
| | | 2 | 2 | 3 | |
| | ANIMAL ID | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | |
| | | 6 | 6 | 6 | |
| | | 7 | 7 | 7 | |
| | | 2 | 3 | 5 | |

| | | | | |
|--|---|---|---|-------|
| ALIMENTARY SYSTEM | | | | |
| ESOPHAGUS | + | + | + | 40 |
| INTESTINE, LARGE, CECUM | + | + | + | 38 |
| INTESTINE, LARGE, COLON | + | + | + | 39 |
| INTESTINE, LARGE, RECTUM | + | + | + | 40 |
| INTESTINE, SMALL, DUODENUM | + | + | + | 39 |
| INTESTINE, SMALL, ILEUM | + | + | + | 39 |
| INTESTINE, SMALL, JEJUNUM | + | + | + | 39 |
| MESENTERY | | | | 5 |
| ADIPOSE TISSUE; INFLAMMATION;
SUPPURATIVE | | | | 1 |
| ADIPOSE TISSUE; NECROSIS | | | | 3 2.0 |
| PANCREAS | + | + | + | 40 |
| SALIVARY GLAND | + | + | + | 40 |
| STOMACH, FORESTOMACH | + | + | + | 38 |
| HYPERKERATOSIS | | | | 1 4.0 |
| EPITHELIUM; HYPERPLASIA;
SQUAMOUS | | | | 1 4.0 |
| STOMACH, GLANDULAR | + | + | + | 40 |

Female: Core Animals

| B6C3F1/N Mouse Female | | S | S | S | | |
|--------------------------------------|--|---|---|---|---------|-----|
| 200 ppm | | D | D | D | | |
| | | 7 | 7 | 7 | | |
| DAY ON TEST | | 3 | 3 | 3 | | |
| | | 2 | 2 | 3 | | |
| | | 0 | 0 | 0 | | |
| ANIMAL ID | | 0 | 0 | 0 | | |
| | | 6 | 6 | 6 | | |
| | | 7 | 7 | 7 | | |
| | | 2 | 3 | 5 | | |
| | | | | | *TOTALS | |
| CARDIOVASCULAR SYSTEM | | | | | | |
| AORTA | | + | + | + | 40 | |
| HEART | | + | + | + | 39 | |
| CARDIOMYOPATHY | | 1 | 1 | 1 | 17 | 1.1 |
| ATRIUM; INFLAMMATION;
SUPPURATIVE | | | | | 1 | 3.0 |
| ATRIOVENTRICULAR VALVE;
THROMBUS | | 3 | | | 1 | 3.0 |
| ATRIUM; THROMBUS | | | | | 1 | 4.0 |
| ENDOCRINE SYSTEM | | | | | | |
| ADRENAL GLAND | | + | + | + | 38 | |
| ACCESSORY ADRENOCORTICAL
NODULE | | | | X | 1 | |
| HEMORRHAGE | | | | | 1 | 4.0 |
| MEDULLA; HYPERPLASIA | | | | | 1 | 4.0 |
| SUBCAPSULAR; HYPERPLASIA | | 2 | | 2 | 2 | 2.0 |
| HYPERPLASIA; SUBCAPSULAR | | | | | 1 | 2.0 |
| CORTEX; NECROSIS | | | | | 1 | 3.0 |
| PARATHYROID GLAND | | N | + | + | 38 | |
| PITUITARY GLAND | | + | + | + | 38 | |
| PARS DISTALIS; HYPERPLASIA | | | | | 2 | 1.5 |
| THYROID GLAND | | + | + | + | 40 | |
| POLYARTERITIS NODOSA | | | | | 1 | 1.0 |
| GENERAL BODY SYSTEM | | | | | | |
| CAVITY | | | | | 2 | |

Female: Core Animals

| B6C3F1/N Mouse Female | | S | S | S | | |
|---|--|---|---|---|---------|-----|
| 200 ppm | | D | D | D | | |
| | | 7 | 7 | 7 | | |
| DAY ON TEST | | 3 | 3 | 3 | | |
| | | 2 | 2 | 3 | | |
| | | 0 | 0 | 0 | | |
| ANIMAL ID | | 0 | 0 | 0 | | |
| | | 6 | 6 | 6 | | |
| | | 7 | 7 | 7 | | |
| | | 2 | 3 | 5 | | |
| | | | | | *TOTALS | |
| HEMATOPOIETIC SYSTEM | | | | | | |
| BONE MARROW | | + | + | + | 40 | |
| HYPERCELLULARITY | | | | | 1 | 4.0 |
| HEPATOBIILIARY SYSTEM | | | | | | |
| GALLBLADDER | | + | + | + | 39 | |
| LIVER | | + | + | + | 38 | |
| BASOPHILIC FOCUS | | | | | | 1 |
| CLEAR CELL FOCUS; MULTIPLE | | | | | | 1 |
| CLEAR CELL FOCUS | | | | | | 1 |
| EOSINOPHILIC FOCUS; MULTIPLE | | | | | | 2 |
| EOSINOPHILIC FOCUS | | | | | | 1 |
| EXTRAMEDULLARY HEMATOPOIESIS | | | | | 1 | 4.0 |
| FATTY CHANGE; DIFFUSE | | | | | 4 | 1.3 |
| FATTY CHANGE; FOCAL | | | | | 1 | 1.0 |
| INFILTRATION CELLULAR;
LYMPHOHISTIOCYTIC | | | 3 | | 1 | 3.0 |
| INFILTRATION CELLULAR; MAST CELL | | | 3 | | 1 | 3.0 |
| MIXED CELL FOCUS | | | | | 1 | |
| NECROSIS; MULTIFOCAL | | | | | 1 | 4.0 |
| NECROSIS | | | | | 1 | 1.0 |

Female: Core Animals

| B6C3F1/N Mouse Female | | S | S | S | | |
|--|--|---|---|---|---------|-------|
| 200 ppm | | D | D | D | | |
| | | 7 | 7 | 7 | | |
| DAY ON TEST | | 3 | 3 | 3 | | |
| | | 2 | 2 | 3 | | |
| | | | | | | |
| ANIMAL ID | | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | | |
| | | 6 | 6 | 6 | | |
| | | 7 | 7 | 7 | | |
| | | 2 | 3 | 5 | *TOTALS | |
| IMMUNE SYSTEM | | | | | | |
| LYMPH NODE | | + | | | 6 | |
| RENAL; INFLAMMATION;
SUPPURATIVE | | | | | 1 | 4.0 |
| LYMPH NODE, BRONCHIAL | | + | + | + | 37 | |
| LYMPH NODE, MANDIBULAR | | + | + | + | 39 | |
| HEMORRHAGE | | | | | 1 | 2.0 |
| LYMPH NODE, MEDIASTINAL | | + | + | + | 39 | |
| LYMPH NODE, MESENTERIC | | + | + | + | 39 | |
| LYMPHOCYTE; HYPERPLASIA | | | | | 3 | 1 3.0 |
| SPLEEN | | + | + | + | 39 | |
| EXTRAMEDULLARY HEMATOPOIESIS;
INCREASED | | | | | 4 | 6 3.8 |
| THYMUS | | + | + | + | 39 | |
| INTEGUMENTARY SYSTEM | | | | | | |
| SKIN | | + | + | + | 40 | |
| CYST; SQUAMOUS | | | | | | 1 |
| INFLAMMATION; SUPPURATIVE | | | | | 1 | 4.0 |
| MUSCULOSKELETAL SYSTEM | | | | | | |
| BONE | | | | | 1 | |
| BONE, FEMUR | | + | + | + | 40 | |
| SKELETAL MUSCLE | | | | | 2 | |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Female: Core Animals

| | | | | | | |
|-----------------------|--|---------|---|---|----|-----|
| B6C3F1/N Mouse Female | | S | S | S | | |
| 200 ppm | | D | D | D | | |
| | | 7 | 7 | 7 | | |
| DAY ON TEST | | 3 | 3 | 3 | | |
| | | 2 | 2 | 3 | | |
| | | 0 | 0 | 0 | | |
| ANIMAL ID | | 0 | 0 | 0 | | |
| | | 6 | 6 | 6 | | |
| | | 7 | 7 | 7 | | |
| | | 2 | 3 | 5 | | |
| | | *TOTALS | | | | |
| NERVOUS SYSTEM | | | | | | |
| BRAIN | | + | + | + | 40 | |
| CEREBRUM; MINERAL | | 2 | | | 1 | 2.0 |
| MINERAL | | | 2 | | 1 | 2.0 |

Female: Core Animals

| | | | | | |
|----------------------------------|-------------|---|---|---|---------|
| B6C3F1/N Mouse Female
200 ppm | DAY ON TEST | S | S | S | *TOTALS |
| | | D | D | D | |
| | | 7 | 7 | 7 | |
| | | 3 | 3 | 3 | |
| | ANIMAL ID | 2 | 2 | 3 | |
| | | 0 | 0 | 0 | |
| | | 0 | 0 | 0 | |
| | | 6 | 6 | 6 | |
| | | 7 | 7 | 7 | |
| | | 2 | 3 | 5 | |

REPRODUCTIVE SYSTEM

| | | | | | |
|---|---|---|-----|----|-----|
| CLITORAL GLAND | + | + | + | 40 | |
| MAMMARY GLAND | + | + | + | 40 | |
| OVARY | + | + | + | 36 | |
| ANGIECTASIS | | | | 2 | 2.0 |
| CYST; MULTIPLE | | | | 1 | |
| CYST | | | | 3 | |
| BILATERAL; HYPERPLASIA;
TUBULOSTROMAL | | | | 9 | 1.7 |
| HYPERPLASIA; TUBULOSTROMAL | | | | 12 | 2.0 |
| INFILTRATION CELLULAR;
LYMPHOHISTIOCYTIC | | | 2 | 1 | 2.0 |
| INFLAMMATION; SUPPURATIVE | | | | 1 | 3.0 |
| MINERAL | | | | 1 | 2.0 |
| POLYARTERITIS NODOSA | | | | 1 | 3.0 |
| THROMBUS | | | | 1 | |
| UTERINE CERVIX | + | + | + | 40 | |
| UTERUS | + | + | + | 39 | |
| DILATION | | | | 2 | 2.5 |
| ENDOMETRIUM; HYPERPLASIA;
CYSTIC | | | 2 1 | 38 | 1.7 |
| VAGINA | + | + | + | 40 | |
| HEMORRHAGE | | | | 1 | 3.0 |
| INFLAMMATION; SUPPURATIVE | | | 2 | 1 | 2.0 |

Female: Core Animals

| | | | | | | |
|---|--|---|---|---|---------|-----|
| B6C3F1/N Mouse Female | | S | S | S | | |
| 200 ppm | | D | D | D | | |
| | | 7 | 7 | 7 | | |
| DAY ON TEST | | 3 | 3 | 3 | | |
| | | 2 | 2 | 3 | | |
| | | | | | | |
| ANIMAL ID | | 0 | 0 | 0 | | |
| | | 0 | 0 | 0 | | |
| | | 6 | 6 | 6 | | |
| | | 7 | 7 | 7 | | |
| | | 2 | 3 | 5 | | |
| | | | | | *TOTALS | |
| RESPIRATORY SYSTEM | | | | | | |
| LARYNX | | + | + | + | 39 | |
| INFLAMMATION; SUPPURATIVE | | | | | 1 | 1.0 |
| LUNG | | + | + | + | 39 | |
| HEMORRHAGE | | | | | 1 | 3.0 |
| ALVEOLAR/BRONCHIOLAR,
EPITHELIUM; HYPERPLASIA | | | | | 6 | 1.8 |
| PERIVASCULAR; INFILTRATION
CELLULAR; LYMPHOHISTIOCYTIC | | | 4 | | 1 | 4.0 |
| PLEURA; INFILTRATION CELLULAR;
MONONUCLEAR CELL | | | | | 1 | 2.0 |
| NOSE | | + | + | + | 38 | |
| STENO'S GLAND; ATROPHY | | | | | 3 | 1.0 |
| GLAND; HYALINE DROPLET
ACCUMULATION | | | | | 1 | 1.0 |
| RESPIRATORY EPITHELIUM;
HYPERPLASIA | | | | | 3 | 1.0 |
| NASOLACRIMAL DUCT;
INFLAMMATION; SUPPURATIVE | | | | | 1 | 3.0 |
| RESPIRATORY EPITHELIUM;
INFLAMMATION; SUPPURATIVE | | | 2 | | 8 | 1.3 |
| OLFACTORY EPITHELIUM;
METAPLASIA; RESPIRATORY | | | | | 6 | 1.0 |
| RESPIRATORY EPITHELIUM;
METAPLASIA; SQUAMOUS | | | 1 | | 6 | 1.0 |
| TRACHEA | | + | + | + | 40 | |

Female: Core Animals

| B6C3F1/N Mouse Female
200 ppm | | S
D
7
3
2 | S
D
7
3
2 | S
D
7
3
3 | *TOTALS | |
|--|---|-----------------------|-----------------------|-----------------------|---------|-----|
| DAY ON TEST | | | | | | |
| ANIMAL ID | | | | | | |
| | | | | | | |
| | | | | | | |
| SPECIAL SENSES SYSTEM | | | | | | |
| EYE | + | + | + | 40 | | |
| PHTHISIS BULBI | | | | | 1 | |
| HARDERIAN GLAND | + | + | + | 40 | | |
| HYPERPLASIA | | | | | 3 | 2.3 |
| URINARY SYSTEM | | | | | | |
| KIDNEY | + | + | + | 40 | | |
| CHRONIC PROGRESSIVE
NEPHROPATHY | 1 | | 1 | | 17 | 1.1 |
| INFARCT; MULTIPLE | | | | | 1 | 4.0 |
| LYMPHOID TISSUE; INFLAMMATION | | | 3 | | 1 | 3.0 |
| PELVIS; INFLAMMATION;
SUPPURATIVE | | | | | 1 | 4.0 |
| URINARY BLADDER | + | + | + | 34 | | |
| EPITHELIUM; HYPERPLASIA | | | 1 | | 1 | 1.0 |
| UROTHELIUM; HYPERPLASIA | | | | | 11 | 1.0 |
| SUBMUCOSA; INFILTRATION
CELLULAR; LYMPHOHISTIOCYTIC | | | 3 | | 1 | 3.0 |
| INFILTRATION CELLULAR;
LYMPHOCYTE | | | | | 16 | 1.0 |
| CYTOPLASMIC; VACUOLATION | | | | | 1 | 1.0 |

| Female: Core Animals | |
|--|-------------|
| B6C3F1/N Mouse Female
400 ppm | DAY ON TEST | S | | | | |
| | | D | | | | |
| | | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 2 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 2 | 2 | 6 | 7 | 4 | 7 | 7 | 7 | 5 | 6 | 7 | 4 | 7 | | |
| | | 3 | 3 | 9 | 2 | 3 | 2 | 3 | 3 | 2 | 4 | 2 | 2 | 9 | 3 | 4 | 8 | 3 | 8 | 3 | 3 | 3 | 3 | 8 | 1 | 3 | 3 | 5 | 1 | 3 | 3 | 3 | 3 | 1 | 3 | |
| | ANIMAL ID | 3 | 3 | 9 | 9 | 1 | 8 | 2 | 3 | 7 | 5 | 6 | 2 | 7 | 2 | 4 | 0 | 3 | 3 | 1 | 2 | 2 | 1 | 3 | 9 | 2 | 3 | 9 | 6 | 2 | 1 | 3 | 9 | 9 | | |
| | | 0 | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 2 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | R | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 |
| ALIMENTARY SYSTEM | |
| ESOPHAGUS | | + | | |
| INTESTINE, LARGE, CECUM | | + | |
| INTESTINE, LARGE, COLON | | + | |
| INTESTINE, LARGE, RECTUM | | + | |
| INTESTINE, SMALL, DUODENUM | | + | |
| INTESTINE, SMALL, ILEUM | | + | |
| INTESTINE, SMALL, JEJUNUM | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | |
| LYMPHOID TISSUE; CELLULARITY INCREASED; LYMPHOCYTE | | 4 | |
| MESENTERY | | | | | | | | | | | | + | |
| ADIPOSE TISSUE; NECROSIS | | | | | | | | | | | | X | |
| PANCREAS | | + | |
| SALIVARY GLAND | | + | |
| STOMACH, FORESTOMACH | | + | A | |
| EPITHELIUM; HYPERPLASIA; FOCAL | | | | | | | | 2 | 1 | | | | | | | | | | | 3 | 3 | | | | | | | | | | | 2 | | | | |
| INFLAMMATION; SUPPURATIVE | | | | | | | | 2 | |
| ULCER | | | | | | | | 2 | |
| STOMACH, GLANDULAR | | + | |

Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Final

Date Report Requested: 08/08/2024

Time Report Requested: 08:59:43

Lab: Battelle with EPL

Female: Core Animals

B6C3F1/N Mouse Female
400 ppm

DAY ON TEST

ANIMAL ID

| |
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| S
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6 |

CARDIOVASCULAR SYSTEM

[illegible]

ENDOCRINE SYSTEM

[illegible]

GENERAL BODY SYSTEM

| | | |
|--------|---|---|
| CAVITY | + | + |
|--------|---|---|

HEMATOPOIETIC SYSTEM

[illegible]

| | | Female: Core Animals | | |
|----------------------------------|--|----|
| B6C3F1/N Mouse Female
400 ppm | | |
| | | DAY ON TEST | | |
| | | ANIMAL ID | | |
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| HEPATOBIILIARY SYSTEM | | |
| GALLBLADDER | | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | A | + | | | | | |
| LIVER | | + | | | |
| ANGIECTASIS | | |
| CLEAR CELL FOCUS; MULTIPLE | | | | | | | | | | | | X | | |
| CLEAR CELL FOCUS | | |
| EOSINOPHILIC FOCUS; MULTIPLE | | |
| EOSINOPHILIC FOCUS | | X | | |
| FATTY CHANGE; DIFFUSE | | | 1 | | | | | | | | | 1 | | | </ |

| Female: Core Animals | | | |
|--|-------------|---|-------------------|
| B6C3F1/N Mouse Female
400 ppm | DAY ON TEST | S | S | S | | | | |
| | | D | D | D | | | | |
| | | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 2 | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 2 | 6 | 7 | 7 | 4 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 4 | 7 | 6 | | | |
| | | 3 | 3 | 9 | 2 | 3 | 2 | 3 | 3 | 2 | 4 | 2 | 2 | 9 | 3 | 4 | 8 | 3 | 8 | 3 | 3 | 3 | 8 | 1 | 3 | 3 | 5 | 1 | 3 | 3 | 3 | 1 | 3 | 9 | | | |
| | | 3 | 3 | 9 | 9 | 1 | 8 | 2 | 3 | 3 | 7 | 5 | 6 | 2 | 7 | 2 | 4 | 0 | 3 | 3 | 1 | 2 | 2 | 1 | 3 | 9 | 2 | 3 | 3 | 9 | 6 | 2 | 3 | 9 | | | |
| | ANIMAL ID | 0 | 0 | 0 | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | | | | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | | | | |
| | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 2 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | | | | |
| | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | R | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | | | |
| IMMUNE SYSTEM | | | |
| LYMPH NODE | | | |
| PANCREATIC; HYPERPLASIA;
LYMPHOCYTE | | | |
| LYMPH NODE, BRONCHIAL | | | + | + | + | + | + | + | + | + | + | + | N | + | + | + | + | + | + | + | + | + | N | + | + | + | + | + | + | N | N | + | + | + | + | N | |
| LYMPH NODE, MANDIBULAR
HYPERPLASIA; LYMPHOCYTE | | | + | N | N | + | + | + | + | + | + | + | + | + | + | + | + | + | N | + | + | + | + | + | + | + | + | + | + | + | + | + | N | + | + | N | |
| LYMPH NODE, MEDIASTINAL
HYPERPLASIA; LYMPHOCYTE | | | + | + | + | N | + | + | + | + | + | + | + | + | + | N | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | + | N | + | + | N |
| LYMPH NODE, MESENTERIC
HEMORRHAGE | | | + | + | + | N | + | + | + | + | + | N | + | + | + | + | + | + | + | + | + | + | + | N | + | + | + | + | + | + | + | + | + | N | + | + | N |
| HYPERPLASIA; LYMPHOCYTE | | | 3 |
| PIGMENT | | | 3 |
| THROMBUS | | | X |
| SPLEEN | | | + | + | | |
| EXTRAMEDULLARY HEMATOPOIESIS;
INCREASED | | | 4 4 4 4 4 4 3 4 3 | |
| THYMUS | | | + | + | + | + | + | + | + | + | + | + | N | + | + | N | + | + | N | + | + | + | + | + | + | + | + | + | + | + | + | N | N | + | + | A | |
| LYMPHOCYTE; HYPERPLASIA;
ATYPICAL | | | |
| INFLAMMATION; GRANULOMATOUS | | | 2 |

| | | Female: Core Animals | | | |
|--|-----------------------|---|---|
| B6C3F1/N Mouse Female
400 ppm | | |
| | | DAY ON TEST | | | |
| | | ANIMAL ID | | | |
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| INTEGUMENTARY SYSTEM | | |
| SKIN | | + | |
| EPITHELIAL CELL; HYPERPLASIA | | | | | | 2 | | |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | | 4 | | | | | | | | | | | 3 | | | | | | | | | | | |
| NECROSIS | | | | | | | | | | | | | | | | 3 | | |
| ULCER | | | | | | | | | | | | | | | | 3 | | |
| MUSCULOSKELETAL SYSTEM | | |
| BONE | | | | | | | | | | | | | | + | | | | | | | | | | | + | | | | | | | | | | | | | |
| BONE, FEMUR | | + | + |
| SKELETAL MUSCLE | | | | | | | | | | | | | | + | | |
| NERVOUS SYSTEM | | |
| BRAIN | | + | + |
| MENINGES; INFILTRATION CELLULAR;
MONONUCLEAR CELL | | | | | | | | | | | | | | | | 2 | | |

| | | | Female: Core Animals | |
|--|-------------|-----------|----------------------|
| B6C3F1/N Mouse Female
400 ppm | DAY ON TEST | ANIMAL ID | S | S | | | | | |
| | | | D | D | | | | | |
| | | | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 2 | 6 | 7 | 7 | 6 | 7 | 6 | 7 | 6 | 7 | 7 | 7 | 2 | 6 | 7 | 7 | 7 | 7 | 5 | 6 | 7 | 4 | 7 | 6 | 9 | | | | |
| | | | 3 | 3 | 9 | 2 | 3 | 2 | 3 | 3 | 2 | 4 | 2 | 2 | 9 | 3 | 4 | 8 | 3 | 8 | 3 | 3 | 3 | 8 | 1 | 3 | 3 | 3 | 5 | 1 | 3 | 3 | 3 | 1 | 9 | | | | |
| | | | 0 | 0 | | | | | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 0 | | | | | |
| | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 6 | 3 | | | | | |
| | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 2 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | 8 | 8 | | | | | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | R | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | | | | | |
| REPRODUCTIVE SYSTEM | | | |
| CLITORAL GLAND | | | + | + | + | + | + | N | + | | | | | | |
| MAMMARY GLAND | | | + | + | A | | | | | |
| DUCT; DILATION | | | 1 |
| OVARY | | | + | + | + | + | + | + | + | + | + | N | + | + | + | + | + | + | + | + | I | I | + | + | + | + | + | + | + | + | + | + | + | + | | | | | |
| ATROPHY | | | 2 |
| CYST; MULTIPLE | | | |
| CYST; PARAOVARIAN | | | |
| CYST; RETE OVARI | | | |
| CYST | | | |
| BILATERAL; HYPERPLASIA;
TUBULOSTROMAL | | | |
| GRANULOSA CELL; HYPERPLASIA | | | |
| HYPERPLASIA; TUBULOSTROMAL | | | 4 | 4 | | | | | | | 3 | | 3 | | 2 | 3 | | | 2 | | | 4 | 2 | 2 | | 3 | | | | 1 | 2 | | 4 | | | | | | |
| PIGMENT | | | |
| THROMBUS | | | |
| UTERINE CERVIX | | | + | + | | | | | |
| UTERUS | | | + | + | | | | | |
| DILATION | | | |
| FIBROSIS | | | |
| ENDOMETRIUM; HYPERPLASIA;
CYSTIC | | | 2 | 2 | 1 | 1 | 3 | 3 | 3 | 2 | 1 | 1 | 2 | 2 | 1 | 2 | 1 | 1 | 1 | 2 | 4 | 2 | 2 | 2 | 1 | 3 | 2 | 1 | 1 | 3 | 1 | 1 | 3 | | 2 | 2 | 2 | 2 | 1 |
| THROMBUS | | | |
| VAGINA | | | + | + | | | | |
| INFLAMMATION; SUPPURATIVE | | | 1 |

| Female: Core Animals | | | | |
|--|-------------|-----------|--|--|
| B6C3F1/N Mouse Female
400 ppm | DAY ON TEST | ANIMAL ID | S | | | | | |
| | | | D | | | | |
| | | | 7 | 7 | 6 | 7 | 7 | 6 | 7 | 7 | 2 | 6 | 7 | 7 | 6 | 7 | 6 | 6 | 7 | 6 | 7 | 7 | 2 | 6 | 7 | 7 | 4 | 7 | 7 | 5 | 6 | 7 | | | |
| | | | 3 | 3 | 9 | 2 | 3 | 2 | 3 | 3 | 2 | 4 | 2 | 2 | 9 | 3 | 4 | 8 | 3 | 8 | 3 | 3 | 3 | 8 | 1 | 3 | 3 | 5 | 1 | 3 | 3 | 1 | 3 | | |
| | | | 0 | | | | |
| | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 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 | 6 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | | | | |
| | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 6 | 6 | 2 | 6 | 6 | 6 | 6 | 6 | 6 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 8 | 8 | 8 | 8 | | | | |
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | R | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | | | | | | |
| RESPIRATORY SYSTEM | | | | |
| LARYNX | | | + | | | | |
| SQUAMOUS EPITHELIUM;
HYPERPLASIA | | | 1 | | |
| LUNG | | | + | | | | |
| HEMORRHAGE | | | | |
| ALVEOLAR/BRONCHIOLAR,
EPITHELIUM; HYPERPLASIA | | | 2 | | | | | 4 | | | | 3 | | | | | 2 | | | 2 | | 3 | | | 2 | | 4 | | | 4 | | 2 | | | |
| NOSE | | | + | | | | |
| STENO'S GLAND; ATROPHY | | | 1 | | | 2 | | | | | | |
| FOREIGN BODY | | | | | | | | X | | |
| RESPIRATORY EPITHELIUM;
HYPERPLASIA | | | 1 | | | | | 1 | | 1 | | | |
| NASOLACRIMAL DUCT;
INFLAMMATION; SUPPURATIVE | | | 1 | | | 1 | | | | | | |
| RESPIRATORY EPITHELIUM;
INFLAMMATION; SUPPURATIVE | | | 1 | | | | | 1 | | | | 1 | | | | | | | | | | 1 | | | 1 | | | 1 | | | | | | | |
| OLFACTORY EPITHELIUM;
METAPLASIA; RESPIRATORY | | | | | | | | | | | | | 1 | | 1 | | 1 | | | | | | 1 | | 3 | | | | | | | | | | |
| RESPIRATORY EPITHELIUM;
METAPLASIA; SQUAMOUS | | | 1 | | | | | | | | | | | | | | | 1 | | | | | | | | | | 1 | | | | | | | |
| TRACHEA | | | + | A | | | | |

| | | Female: Core Animals | |
|----------------------------------|-------------|-----------------------|
| B6C3F1/N Mouse Female
400 ppm | | |
| | DAY ON TEST | S
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Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Female: Core Animals

B6C3F1/N Mouse Female
400 ppm

DAY ON TEST

ANIMAL ID

| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 5 | 7 | 7 | |
| 3 | 0 | 3 | 3 | 3 | 2 | 3 | 8 | 3 | 8 | 8 | 3 | 0 | | |
| 1 | 3 | 3 | 2 | 3 | 2 | 3 | 4 | 2 | 3 | 7 | 2 | 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 | | |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | | |
| 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |

*TOTALS

ALIMENTARY SYSTEM

| | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| ESOPHAGUS | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| INTESTINE, LARGE, CECUM | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| INTESTINE, LARGE, COLON | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| INTESTINE, LARGE, RECTUM | + | + | + | + | + | + | + | + | + | + | A | + | + | 49 |
| INTESTINE, SMALL, DUODENUM | + | + | + | + | + | + | + | + | + | + | A | + | A | 48 |
| INTESTINE, SMALL, ILEUM | + | + | + | + | + | + | + | + | + | + | A | + | + | 49 |
| INTESTINE, SMALL, JEJUNUM | + | + | + | + | + | + | + | + | + | + | A | + | + | 48 |
| LYMPHOID TISSUE; CELLULARITY
INCREASED; LYMPHOCYTE | | | | | | | | | | | | | | 1 4.0 |
| MESENTERY | | | | | + | + | | | | | | | | 4 |
| ADIPOSE TISSUE; NECROSIS | | | | | X | 3 | | | | | | | | 4 2.5 |
| PANCREAS | + | + | + | + | + | + | + | + | + | + | A | + | + | 49 |
| SALIVARY GLAND | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| STOMACH, FORESTOMACH | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| EPITHELIUM; HYPERPLASIA; FOCAL | | | | | | | | | | | | | | 5 2.2 |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | 1 2.0 |
| ULCER | | | | | | | | | | | | | | 1 2.0 |
| STOMACH, GLANDULAR | + | + | + | + | + | + | + | + | + | + | A | + | + | 49 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Female: Core Animals

B6C3F1/N Mouse Female
400 ppm

DAY ON TEST

ANIMAL ID

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 5 | 7 | 7 | | |
| 3 | 0 | 3 | 3 | 3 | 2 | 3 | 8 | 3 | 8 | 8 | 3 | 0 | | | |
| 1 | 3 | 3 | 2 | 3 | 2 | 3 | 4 | 2 | 3 | 7 | 2 | 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 | 0 | 0 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | | |
| 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | |

*TOTALS

CARDIOVASCULAR SYSTEM

| | | | | | | | | | | | | | | | |
|----------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|--------|
| AORTA | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| HEART | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| BACTERIA | | | | | | | | | | X | | | | | 1 |
| CARDIOMYOPATHY | 1 | | | 1 | | 2 | 1 | 1 | | | | 2 | | | 21 1.2 |
| VALVE; INFLAMMATION; SUPPURATIVE | | | | | | | | | | 3 | | | | | 1 3.0 |
| VALVE; PIGMENT | | | | | | | | | | | | | | | 1 4.0 |
| VALVE; THROMBUS | | | | | | | | | | X | | | | | 1 |

ENDOCRINE SYSTEM

| | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| ADRENAL GLAND | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 |
| BILATERAL, CORTEX, SUBCAPSULAR;
HYPERPLASIA | | | | 3 | | | | | | | | | | | 2 3.5 |
| CORTEX, SUBCAPSULAR;
HYPERPLASIA | | | | | | | | | | | | | | | 1 2.0 |
| CORTEX; HYPERTROPHY; FOCAL | | | | | | | | 2 | | | | | | | 1 2.0 |
| PARATHYROID GLAND | + | + | + | + | + | + | + | N | + | + | N | + | + | | 47 |
| PITUITARY GLAND | N | + | + | + | N | + | + | + | + | + | + | + | + | | 44 |
| THYROID GLAND | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |

GENERAL BODY SYSTEM

| | | | | | | | | | | | | | | | |
|--------|--|--|--|--|--|--|--|--|--|--|--|--|---|--|---|
| CAVITY | | | | | | | | | | | | | + | | 3 |
|--------|--|--|--|--|--|--|--|--|--|--|--|--|---|--|---|

HEMATOPOIETIC SYSTEM

| | | | | | | | | | | | | | | | |
|------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|
| BONE MARROW | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 |
| HYPERCELLULARITY | | | | | | | | | | | | | | 1 | 4.0 |

| Female: Core Animals | | | | | | | | | | | | | | | | |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|-----|--|
| B6C3F1/N Mouse Female
400 ppm | DAY ON TEST | S | S | S | S | S | S | S | S | S | S | S | S | S | | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | | |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 5 | 7 | 7 | | |
| | | 3 | 0 | 3 | 3 | 3 | 2 | 3 | 8 | 3 | 8 | 8 | 3 | 0 | | |
| | ANIMAL ID | 1 | 3 | 3 | 2 | 3 | 2 | 3 | 4 | 2 | 3 | 7 | 2 | 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 | | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | | |
| | | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | |
| *TOTALS | | | | | | | | | | | | | | | | |
| HEPATOBIILIARY SYSTEM | | | | | | | | | | | | | | | | |
| GALLBLADDER | + | + | + | N | + | + | + | + | + | + | N | + | A | | 46 | |
| LIVER | + | + | + | + | + | + | + | + | + | + | + | + | + | | 50 | |
| ANGIECTASIS | | | | | | | | | | | | 2 | | 1 | 2.0 | |
| CLEAR CELL FOCUS; MULTIPLE | | | | | | | | | | | | | | 1 | | |
| CLEAR CELL FOCUS | | | | | | | | | X | | | | | 1 | | |
| EOSINOPHILIC FOCUS; MULTIPLE | | | | | X | | | | | | | | | 2 | | |
| EOSINOPHILIC FOCUS | | | | | | | | | | | | | | 2 | | |
| FATTY CHANGE; DIFFUSE | | | | | | | | | 1 | 1 | | 1 | | 6 | 1.0 | |
| MIXED CELL FOCUS; MULTIPLE | | | | | | | | | | | | | | 1 | | |
| MIXED CELL FOCUS | | | | | | | | | | | | | | 1 | | |
| CENTRIOLOBULAR; NECROSIS | | | | | | 3 | | | | 2 | | | | 2 | 2.5 | |
| NECROSIS | | | | | | | | | | | | | 3 | 1 | 3.0 | |
| TENSION LIPIDOSIS | | | | | | | | | | | | | | 3 | 1.0 | |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Female: Core Animals

B6C3F1/N Mouse Female
400 ppm

DAY ON TEST

ANIMAL ID

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 5 | 7 | 7 | | |
| 3 | 0 | 3 | 3 | 3 | 2 | 3 | 8 | 3 | 8 | 8 | 3 | 0 | | | |
| 1 | 3 | 3 | 2 | 3 | 2 | 3 | 4 | 2 | 3 | 7 | 2 | 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 | | | |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | | |
| 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | |

*TOTALS

IMMUNE SYSTEM

| | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| LYMPH NODE | + | | | | | | | | | | | + | | 2 | |
| PANCREATIC; HYPERPLASIA;
LYMPHOCYTE | | | | | | | | | | | | 4 | | 1 | 4.0 |
| LYMPH NODE, BRONCHIAL | + | + | + | + | + | + | + | + | + | + | A | + | + | 44 | |
| LYMPH NODE, MANDIBULAR | + | + | + | + | + | + | + | + | + | + | + | + | + | 45 | |
| HYPERPLASIA; LYMPHOCYTE | | | | | | | | | | | | | | 1 | 3.0 |
| LYMPH NODE, MEDIASTINAL | + | + | + | N | + | + | + | + | + | + | N | + | N | 43 | |
| HYPERPLASIA; LYMPHOCYTE | | | | | | | | | | | | 3 | | 2 | 3.0 |
| LYMPH NODE, MESENTERIC | + | + | + | + | + | + | + | + | + | + | A | + | + | 44 | |
| HEMORRHAGE | | | | | | | | | | | | | | 1 | 2.0 |
| HYPERPLASIA; LYMPHOCYTE | | | | | | | | | | | | | | 1 | 3.0 |
| PIGMENT | | | | | | | | | | | | | | 1 | 3.0 |
| THROMBUS | | | | | | | | | | | | | | 1 | |
| SPLEEN | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| EXTRAMEDULLARY HEMATOPOIESIS;
INCREASED | | | | | | | | 3 | | | | 4 | | 9 | 3.7 |
| THYMUS | + | + | + | + | + | + | + | + | + | + | N | + | N | 42 | |
| LYMPHOCYTE; HYPERPLASIA;
ATYPICAL | | | | | | | | | | | | 2 | | 1 | 2.0 |
| INFLAMMATION; GRANULOMATOUS | | | | | | | | | | | | | | 1 | 2.0 |

Study Number: C20302B-01
Test Type: TOX
Route: Whole-Body Inhalation
Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal
Test Compound: alpha-Pinene
CAS Number: 80-56-8
Final

Date Report Requested: 08/08/2024
Time Report Requested: 08:59:43
Lab: Battelle with EPL

Female: Core Animals

| | | | | | | | | | | | | | | | |
|----------------------------------|-------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---------|
| B6C3F1/N Mouse Female
400 ppm | DAY ON TEST | S | S | S | S | S | S | S | S | S | S | S | S | S | |
| | | D | D | D | D | D | D | D | D | D | D | D | D | D | |
| | | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 5 | 7 | 7 | | |
| | | 3 | 0 | 3 | 3 | 3 | 2 | 3 | 8 | 3 | 8 | 8 | 3 | 0 | |
| | | 1 | 3 | 3 | 2 | 3 | 2 | 3 | 4 | 2 | 3 | 7 | 2 | 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 | |
| | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | |
| | | 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | |
| | | 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | *TOTALS |

INTEGUMENTARY SYSTEM

| | | | | | | | | | | | | | | | |
|------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| SKIN | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| EPITHELIAL CELL; HYPERPLASIA | | | | | | | | | | | | | | | 1 2.0 |
| INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | 2 3.5 |
| NECROSIS | | | | | | | | | | | | | | | 1 3.0 |
| ULCER | | | | | | | | | | | | | | | 1 3.0 |

MUSCULOSKELETAL SYSTEM

| | | | | | | | | | | | | | | | |
|-----------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|
| BONE | | | | | | | | | | | | | | | 2 |
| BONE, FEMUR | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| SKELETAL MUSCLE | | | | | | | | | | | | | | | 1 |

NERVOUS SYSTEM

| | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-------|
| BRAIN | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 |
| MENINGES; INFILTRATION CELLULAR;
MONONUCLEAR CELL | | | | | | | | | | | | | | | 1 2.0 |

Study Number: C20302B-01

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Final

Date Report Requested: 08/08/2024

Time Report Requested: 08:59:43

Lab: Battelle with EPL

Female: Core Animals

B6C3F1/N Mouse Female

400 ppm

DAY ON TEST

ANIMAL ID

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 5 | 7 | 7 | | |
| 3 | 0 | 3 | 3 | 3 | 2 | 3 | 8 | 3 | 8 | 8 | 3 | 0 | | | |
| 1 | 3 | 3 | 2 | 3 | 2 | 3 | 4 | 2 | 3 | 7 | 2 | 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 | 0 | 0 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | | |
| 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | |

*TOTALS

REPRODUCTIVE SYSTEM

| | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|--|
| CLITORAL GLAND | + | + | + | + | + | + | + | + | + | + | N | + | + | 48 | | |
| MAMMARY GLAND | N | + | + | + | + | + | + | + | + | + | + | + | + | 48 | | |
| DUCT; DILATION | | | | | | | | | | | | | 2 | 2 | 1.5 | |
| OVARY | + | + | + | + | + | + | + | + | + | + | + | + | + | 46 | | |
| ATROPHY | | | | | | | | | | | | | | 1 | 2.0 | |
| CYST; MULTIPLE | | | | | | | | | | | | | | 1 | | |
| CYST; PARAOVARIAN | | | | | | | | | | | | | | 1 | | |
| CYST; RETE OVARI | | | | | | | | | | | | | | 1 | | |
| CYST | | | | | | | | | X | | | | | 3 | | |
| BILATERAL; HYPERPLASIA;
TUBULOSTROMAL | | | | 1 | | 3 | | | | | | | | 8 | 2.9 | |
| GRANULOSA CELL; HYPERPLASIA | | | | | | | | 4 | | | | | | 1 | 4.0 | |
| HYPERPLASIA; TUBULOSTROMAL | | 2 | 3 | | | | 4 | | 2 | | | 1 | | 20 | 2.7 | |
| PIGMENT | | | | | | | | | | | | | | 1 | 2.0 | |
| THROMBUS | | | | | | | | | | | | | | 1 | | |
| UTERINE CERVIX | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| UTERUS | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| DILATION | | | | | | | | | | | | | | 1 | 4.0 | |
| FIBROSIS | | | | | | | | | | | | 3 | | 1 | 3.0 | |
| ENDOMETRIUM; HYPERPLASIA;
CYSTIC | 2 | 2 | 3 | 3 | 3 | 3 | 1 | 1 | 3 | 3 | 1 | 3 | 3 | 49 | 2.0 | |
| THROMBUS | | | | X | | | | | | | | | | 1 | | |
| VAGINA | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| INFLAMMATION; SUPPURATIVE | | | | | | | | 1 | | | | | | 2 | 1.0 | |

Study Number: C20302B-01

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal

Test Compound: alpha-Pinene

CAS Number: 80-56-8

Final

Date Report Requested: 08/08/2024

Time Report Requested: 08:59:43

Lab: Battelle with EPL

Female: Core Animals

B6C3F1/N Mouse Female

400 ppm

DAY ON TEST

ANIMAL ID

| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 5 | 7 | 7 | | |
| 3 | 0 | 3 | 3 | 3 | 2 | 3 | 8 | 3 | 8 | 8 | 3 | 0 | | | |
| 1 | 3 | 3 | 2 | 3 | 2 | 3 | 4 | 2 | 3 | 7 | 2 | 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 | 0 | 0 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | | |
| 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | |

*TOTALS

RESPIRATORY SYSTEM

| | | | | | | | | | | | | | | | | |
|--|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|
| LARYNX | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| SQUAMOUS EPITHELIUM;
HYPERPLASIA | | | | | | | | | | | | | | | 1 | 1.0 |
| LUNG | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | |
| HEMORRHAGE | | | | | | | | | | 4 | | | | | 1 | 4.0 |
| ALVEOLAR/BRONCHIOLAR,
EPITHELIUM; HYPERPLASIA | 2 | | 4 | 2 | | 4 | 4 | | 4 | | | 4 | | | 17 | 3.1 |
| NOSE | + | + | + | + | + | + | + | + | + | + | A | + | + | | 49 | |
| STENO'S GLAND; ATROPHY | | | | | | | | | | | | | | | 2 | 1.5 |
| FOREIGN BODY | | | | | | | | | | | | | | | 1 | |
| RESPIRATORY EPITHELIUM;
HYPERPLASIA | | | | | | | | | | | | | | | 3 | 1.0 |
| NASOLACRIMAL DUCT;
INFLAMMATION; SUPPURATIVE | | | | | | | | | | | | | | | 2 | 1.0 |
| RESPIRATORY EPITHELIUM;
INFLAMMATION; SUPPURATIVE | | | | | | 1 | | 1 | | | | 1 | | | 9 | 1.0 |
| OLFACTORY EPITHELIUM;
METAPLASIA; RESPIRATORY | | | | 1 | | | | | | | | | | | 6 | 1.3 |
| RESPIRATORY EPITHELIUM;
METAPLASIA; SQUAMOUS | | | | | | 1 | | | | | | 1 | 1 | | 6 | 1.0 |
| TRACHEA | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 49 | |

Study Number: C20302B-01

Test Type: TOX

Route: Whole-Body Inhalation

Species/Strain: Mouse/B6C3F1/N

PA09: Non-Neoplastic Lesions By Individual Animal

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CAS Number: 80-56-8

Final

Date Report Requested: 08/08/2024

Time Report Requested: 08:59:43

Lab: Battelle with EPL

Female: Core Animals

B6C3F1/N Mouse Female

400 ppm

DAY ON TEST

ANIMAL ID

| | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| S | S | S | S | S | S | S | S | S | S | S | S | S | S | S | S |
| D | D | D | D | D | D | D | D | D | D | D | D | D | D | D | D |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 4 | 7 | 6 | 5 | 7 | 7 | | |
| 3 | 0 | 3 | 3 | 3 | 2 | 3 | 8 | 3 | 8 | 8 | 3 | 0 | | | |
| 1 | 3 | 3 | 2 | 3 | 2 | 3 | 4 | 2 | 3 | 7 | 2 | 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 | 0 | 0 |
| 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 4 | | |
| 8 | 8 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 0 | | |
| 8 | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 0 | | | |

*TOTALS

SPECIAL SENSES SYSTEM

| | | | | | | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|--|
| EYE | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| CORNEA; HYPERPLASIA; SQUAMOUS | | | | | | | | | | | | | | | 1 | 1.0 | |
| HARDERIAN GLAND | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| CYST | X | | | | | | | | | | | | | | 1 | | |
| BILATERAL; HYPERPLASIA | | | | | | | | | | | | | | | 1 | 2.0 | |
| HYPERPLASIA | | | | | | | | | | | | | | | 7 | 3.0 | |
| ZYMBAL'S GLAND | | | | | | | | | | | | | | | 1 | | |

URINARY SYSTEM

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----|-----|--|
| KIDNEY | + | + | + | + | + | + | + | + | + | + | + | + | + | + | 50 | | |
| CHRONIC PROGRESSIVE NEPHROPATHY | | | 1 | | | 1 | | | 1 | 1 | | | 1 | | 20 | 1.2 | |
| PELVIS; DILATION | | | | | | | | | | | | | | | 1 | 2.0 | |
| RENAL TUBULE; DILATION | | | | | | | | | | | | | | | 1 | 4.0 | |
| INFARCT | | | | | | | | | 2 | | | | | | 1 | 2.0 | |
| INFILTRATION CELLULAR; LYMPHOCYTE | | | | | | | | | | | | | | | 1 | 2.0 | |
| METAPLASIA; OSSEOUS | | | | | X | | | | | | | | | | 1 | | |
| RENAL TUBULE; PIGMENT | | | | | | | | | | | | | | 3 | 1 | 3.0 | |
| URINARY BLADDER | A | + | + | + | + | + | + | + | + | + | A | + | + | | 46 | | |
| UROTHELIUM; HYPERPLASIA | | | 2 | 1 | 1 | 2 | 1 | 1 | | | | 2 | | | 20 | 1.4 | |
| INFILTRATION CELLULAR; LYMPHOCYTE | | | | 1 | | 1 | 1 | | 1 | | | 2 | | | 22 | 1.1 | |
| INFILTRATION CELLULAR; MONONUCLEAR CELL | | | | | | | | | | | | | | | 1 | 1.0 | |

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Lab: Battelle with EPL

LEGEND

*TOTAL = Total animals with tissue examined microscopically: Total animals with lesion and average severity grade if appropriate.

+ = Tissue examined microscopically

X = Lesion present

A = Autolysis precludes evaluation

I = Insufficient tissue

M = Missing slides

N = No section present

P = Artifact precludes examination

R = Not examined read-down

BLANK = Not examined microscopically

1-4 = Lesion qualified as: 1) minimal; 2) mild; 3) moderate; 4) marked

**** END OF REPORT ****