

Experiment Number: 20606-99

Test Type: 18-33 DAYS

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: Mouse/BALB/C

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

Test Compound: 2,3 butanedione

CAS Number: 431-03-8

Date Report Requested: 10/23/2014

Time Report Requested: 14:03:14

First Dose M/F: NA / NA

Lab: VCU

C Number: I20606

Lock Date: 02/12/2009

Cage Range: All

Date Range: All

Reasons For Removal: All

Removal Date Range: All

Treatment Groups: All

Study Gender: Female

PWG Approval Date: NONE

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BALB/C Mouse FEMALE	Air Control	DA 25-ppm	DA 50-ppm	DA 100-ppm
Disposition Summary				
Animals Initially In Study	5	5	6	6
Early Deaths				
Survivors				
Terminal Sacrifice	5	5	6	6
Animals Examined Microscopically	5	5	6	6
ALIMENTARY SYSTEM				
Liver	(5)	(5)	(6)	(6)
Inflammation, Chronic	4 [1.0]	4 [1.0]	5 [1.0]	3 [1.0]
CARDIOVASCULAR SYSTEM				
None				
ENDOCRINE SYSTEM				
None				
GENERAL BODY SYSTEM				
None				
GENITAL SYSTEM				
None				
HEMATOPOIETIC SYSTEM				
Bronchial Associated Lymphoid Tissue	(3)	(5)	(5)	(6)
Lymph Node, Bronchial	(3)	(4)	(4)	(6)
Lymph Node, Mediastinal	(3)	(1)	(2)	(1)
Spleen	(5)	(5)	(6)	(6)
Follicles, Germ center, Increased Number				2 [1.0]
Marginal Zone, Increased Size			2 [1.0]	3 [1.7]
PeriLymphSheath, Decreased Number, Lymphocyte		1 [1.0]	2 [1.0]	2 [1.0]

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

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

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BALB/C Mouse FEMALE	Air Control	DA 25-ppm	DA 50-ppm	DA 100-ppm
PeriLymphSheath, Decreased Size		2 [1.5]	3 [1.0]	4 [1.8]
PeriLymphSheath, Increased Number, Apoptotic Cel		1 [1.0]	1 [1.0]	
PeriLymphSheath, Increased Number, Pig Macrophag			1 [1.0]	
Red Pulp, Decreased Size			3 [1.0]	4 [1.0]
Red Pulp, Increased Number, Hemat Cells			2 [1.5]	
Thymus	(5)	(5)	(6)	(6)
Cortex, Decreased Number, Lymphocyte		2 [1.0]	2 [1.0]	3 [1.3]
Cortex, Decreased Size		1 [1.0]	2 [2.0]	3 [1.3]
Cortex, Extramedullary Hematopoiesis			1 [1.0]	
Cortex, Increased Number, Apoptotic Cel		3 [1.0]	6 [1.0]	1 [1.0]
Cortex, Increased Number, Lymphoblasts			2 [1.0]	2 [1.5]
Cortex, Increased Number, Ting Body Macr		1 [1.0]	5 [1.2]	
Decreased Cortex Medulla Ratio			1 [3.0]	
Medulla, Extramedullary Hematopoiesis	1 [1.0]			
Medulla, Increased Number, Lymphocyte			3 [1.3]	5 [1.6]
Medulla, Increased Size		1 [1.0]	1 [1.0]	2 [1.0]
INTEGUMENTARY SYSTEM				
None				
MUSCULOSKELETAL SYSTEM				
None				
NERVOUS SYSTEM				
None				
RESPIRATORY SYSTEM				
Lung	(5)	(5)	(6)	(6)
Bronchus, Epithelium, Regeneration			1 [1.0]	4 [1.5]
Bronchus, Inflammation, Chronic Active			5 [1.0]	4 [1.0]

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BALB/C Mouse FEMALE	Air Control	DA 25-ppm	DA 50-ppm	DA 100-ppm
Trachea	(1)	(0)	(2)	(1)
SPECIAL SENSES SYSTEM				
None				
URINARY SYSTEM				
None				

**** END OF REPORT ****

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

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