

**Experiment Number:** 20725 - 04  
**Test Type:** CHRONIC  
**Route:** RESPIRATORY EXPOSURE WHOLE BODY  
**Species/Strain:** MICE/B6C3F1

**E05: CLINICAL OBSERVATIONS SUMMARY**

2,3-Butanedione  
**CAS Number:** 431-03-8

**Date Report Requested:** 04/15/2016  
**Time Report Requested:** 10:33:43  
**First Dose M/F:** 08/31/09 / 08/31/09  
**Lab:** BNW

F1\_Mice

**NTP Study Number:** C20725  
**Lock Date:** 10/11/2012  
**Cage Range:** ALL  
**Date Range:** ALL  
**Reasons For Removal:** ALL  
**Removal Date Range:** ALL  
**Treatment Groups:** Include ALL  
**Study Gender:** Both  
**TDMSE Version:** 3.0.2.3\_002  
**PWG Approval Date:** 01/25/2016

Experiment Number: 20725 - 04

Test Type: CHRONIC

Route: RESPIRATORY EXPOSURE WHOLE BODY

Species/Strain: MICE/B6C3F1

## E05: CLINICAL OBSERVATIONS SUMMARY

2,3-Butanedione

CAS Number: 431-03-8

Date Report Requested: 04/15/2016

Time Report Requested: 10:33:43

First Dose M/F: 08/31/09 / 08/31/09

Lab: BNW

OBSERVATION	WEEK: 105							
	Control		12.5 ppm		25 ppm		50 ppm	
	CURRENT*	TOTAL+	CURRENT	TOTAL	CURRENT	TOTAL	CURRENT	TOTAL
<b>Abnormal Breathing</b>	0 / 0	0/50	0 / 0	0/50	0 / 0	0/50	0 / 0	5 / 50 DAY 228
<b>Eye Abnormality</b>	0 / 0	3 / 50 DAY 564	0 / 0	2 / 50 DAY 480	0 / 0	0/50	0 / 0	10 / 50 DAY 144
<b>Lethargic</b>	0 / 0	0/50	0 / 0	1 / 50 DAY 676	0 / 0	0/50	0 / 0	1 / 50 DAY 340
<b>Mass</b> Torso/Lateral	0 / 0	0/50	0 / 0	1 / 50 DAY 718	0 / 0	0/50	0 / 0	0/50
<b>Nasal/Eye Discharge</b>	0 / 0	0/50	0 / 0	0/50	0 / 0	0/50	0 / 0	1 / 50 DAY 592
<b>Sneezing</b>	0 / 0	0/50	0 / 0	0/50	0 / 0	0/50	0 / 0	3 / 50 DAY 200
<b>Thin</b>	0 / 0	6 / 50 DAY 508	0 / 0	4 / 50 DAY 648	0 / 0	3 / 50 DAY 676	0 / 0	22 / 50 DAY 312
<b>Ulcer/Abscess</b> Torso/Dorsal	0 / 0	0/50	0 / 0	0/50	0 / 0	1 / 50 DAY 690	0 / 0	0/50

\* ANIMALS WITH OBSERVATION IN CURRENT PERIOD / TOTAL ANIMALS OBSERVED IN CURRENT PERIOD (WITHIN 30 DAYS OF RUN DATE)

+ ROW 1 = CUMULATIVE NO. OF ANIMALS WITH OBSERVATION / TOTAL ANIMALS STARTED ON STUDY

ROW 2 = DAY OF ONSET

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	Control		12.5 ppm		25 ppm		50 ppm	
	CURRENT*	TOTAL+	CURRENT	TOTAL	CURRENT	TOTAL	CURRENT	TOTAL
Ulcer/Abscess Torso/Lateral	0 / 0	2 / 50 DAY 690	0 / 0	0 / 50	0 / 0	1 / 50 DAY 620	0 / 0	0 / 50
Ulcer/Abscess Torso/Ventral	0 / 0	0 / 50	0 / 0	0 / 50	0 / 0	1 / 50 DAY 662	0 / 0	1 / 50 DAY 718

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

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Lab: BNW

SEX: FEMALE		WEEK: 105							
OBSERVATION	Control		12.5 ppm		25 ppm		50 ppm		
	CURRENT*	TOTAL+	CURRENT	TOTAL	CURRENT	TOTAL	CURRENT	TOTAL	
Abnormal Breathing	0 / 0	2 / 50 DAY 662	0 / 0	1 / 50 DAY 704	0 / 0	3 / 50 DAY 592	0 / 0	5 / 50 DAY 424	
Diarrhea	0 / 0	1 / 50 DAY 592	0 / 0	0/50	0 / 0	0/50	0 / 0	0/50	
Eye Abnormality	0 / 0	2 / 50 DAY 620	0 / 0	1 / 50 DAY 564	0 / 0	8 / 50 DAY 620	0 / 0	35 / 50 DAY 396	
Head Tilt	0 / 0	0/50	0 / 0	0/50	0 / 0	0/50	0 / 0	1 / 50 DAY 690	
Impaired Gait	0 / 0	0/50	0 / 0	0/50	0 / 0	1 / 50 DAY 620	0 / 0	0/50	
Lethargic	0 / 0	0/50	0 / 0	0/50	0 / 0	2 / 50 DAY 620	0 / 0	1 / 50 DAY 424	
Mass Head	0 / 0	1 / 50 DAY 662	0 / 0	0/50	0 / 0	0/50	0 / 0	0/50	
Mass Torso/Dorsal	0 / 0	1 / 50 DAY 648	0 / 0	1 / 50 DAY 690	0 / 0	0/50	0 / 0	0/50	

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SEX: FEMALE		WEEK: 105							
OBSERVATION	Control		12.5 ppm		25 ppm		50 ppm		
	CURRENT*	TOTAL+	CURRENT	TOTAL	CURRENT	TOTAL	CURRENT	TOTAL	
<b>Mass</b> Torso/Lateral	0 / 0	1 / 50 DAY 718	0 / 0	0 / 50	0 / 0	2 / 50 DAY 704	0 / 0	0 / 50	
<b>Mass</b> Torso/Ventral	0 / 0	1 / 50 DAY 648	0 / 0	0 / 50	0 / 0	0 / 50	0 / 0	0 / 50	
<b>Ruffled Fur</b>	0 / 0	0 / 50	0 / 0	0 / 50	0 / 0	0 / 50	0 / 0	3 / 50 DAY 424	
<b>Sneezing</b>	0 / 0	0 / 50	0 / 0	0 / 50	0 / 0	0 / 50	0 / 0	5 / 50 DAY 284	
<b>Thin</b>	0 / 0	8 / 50 DAY 592	0 / 0	7 / 50 DAY 536	0 / 0	9 / 50 DAY 592	0 / 0	22 / 50 DAY 256	
<b>Ulcer/Abscess</b> Torso/Dorsal	0 / 0	0 / 50	0 / 0	0 / 50	0 / 0	0 / 50	0 / 0	1 / 50 DAY 480	
<b>Ulcer/Abscess</b> Torso/Ventral	0 / 0	0 / 50	0 / 0	0 / 50	0 / 0	0 / 50	0 / 0	1 / 50 DAY 676	

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

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