

Experiment Number: **A44706**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data

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

Date Report Requested: **09/20/2018**

Time Report Requested: **14:44:03**

NTP Study Number: A44706
Study Duration: 72 Hours
Study Methodology: Slide Scoring
Male Study Result: Negative

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 24 h

Dose (mg/kg)	N	MN PCE/1000		N	MN NCE/1000		% PCE
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	
Vehicle Control ¹	5	2.10 ± 0.29		1	0.00 ± 0.00		45.50 ± 0.00
7.812	5	0.90 ± 0.33	0.9858				59.58 ± 0.82
15.625	5	0.70 ± 0.30	0.9959				56.30 ± 2.43
31.25	5	1.50 ± 0.45	0.8416				63.60 ± 1.94
62.5	5	0.90 ± 0.19	0.9858				62.88 ± 1.97
125.0	5	0.70 ± 0.25	0.9959				58.32 ± 2.50
250.0	5	0.70 ± 0.20	0.9959				58.88 ± 1.87
500.0	5	1.60 ± 0.29	0.7947				63.32 ± 1.54
Trend p-Value		0.3610					
Positive Control ²	5	9.90 ± 1.18	< 0.001 *	5	0.00 ± 0.00	0.5000	56.12 ± 1.26

Trial Summary: Negative

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LEGEND

MN = micronucleated, PCE = polychromatic erythrocyte, NCE = normochromatic erythrocyte

CAS Number = Chemical Abstracts Service registry number

N = Number of subjects

Values given as Mean or Mean \pm Standard Error Mean

Results were tabulated as the mean of the pooled results from all animals within a treatment group, plus or minus the standard error of the mean

Pairwise comparison to the concurrent control, dosed groups significant at $p = 0.025/\text{number of treatment groups}$; positive control value is significant at $p = 0.05$

Cochran-Armitage trend test, significant at $p = 0.025$

* Statistically significant pairwise or trend test

1: Vehicle Control: Phosphate Buffered Saline

2: 15.0 mg/kg Cyclophosphamide

**** END OF REPORT ****