

Experiment Number: F92367

Test Type: Genetic Toxicology - Micronucleus

Route: Gavage

Species/Strain: Mouse/B6C3F1

**G04: In Vivo Micronucleus Summary Data**

Test Compound: Acetylacetone

CAS Number: 123-54-6

Date Report Requested: 09/23/2018

Time Report Requested: 10:17:52

**NTP Study Number:**

F92367

**Study Duration:**

4 Days

**Study Methodology:**

Flow Cytometry

**Male Study Result:**

Positive

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**Tissue: Blood; Sex: Male; Number of Treatments: 4; Time interval between final treatment and cell sampling: 28 h**

Dose (mg/kg)	N	MN PCE/1000		N	MN NCE/1000		% PCE	
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM	p-Value
Vehicle Control <sup>1</sup>	5	2.200 ± 0.102		5	1.424 ± 0.031		1.311 ± 0.055	
750.0	5	4.270 ± 0.495	0.0013 *	5	1.488 ± 0.031	0.0807	1.707 ± 0.149	0.1287
1000.0	4	5.850 ± 0.439	< 0.001 *	4	1.576 ± 0.030	0.0033 *	1.360 ± 0.105	0.1775
Trend p-Value		< 0.001 *			0.0051 *		0.3131	
Positive Control <sup>2</sup>	5	16.720 ± 0.738	< 0.001 *	5	1.828 ± 0.039	< 0.001 *	0.568 ± 0.063	< 0.001 *

Trial Summary: Positive

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Dose (mg/kg)	N	MN PCE/1000		N	MN NCE/1000		% PCE	
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM	p-Value
Vehicle Control <sup>1</sup>	5	2.510 ± 0.075		5	1.442 ± 0.034		1.557 ± 0.020	
250.0	5	2.690 ± 0.099	0.1661	5	1.439 ± 0.037	0.5117	1.613 ± 0.076	0.6919
500.0	5	2.900 ± 0.181	0.0299	5	1.494 ± 0.036	0.1938	1.583 ± 0.070	0.8125
Trend p-Value		0.0207 *			0.1561		0.8107	
Positive Control <sup>2</sup>	5	16.720 ± 0.738	< 0.001 *	5	1.828 ± 0.039	< 0.001 *	0.568 ± 0.063	0.0090 *

Trial Summary: Positive

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LEGEND

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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

Pairwise comparison with the control group; values are significant at  $P \leq 0.025$  by Williams or Dunn's test

Dose-related trend; significant at  $P \leq 0.025$  by linear regression or Jonckheere's test

\* Statistically significant pairwise or trend test

1: Vehicle Control: Corn Oil

2: 25.0 mg/kg Cyclophosphamide

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