

Experiment Number: 039087

Test Type: Genetic Toxicology - Micronucleus

Route: Intraperitoneal Injection

Species/Strain: Mouse/B6C3F1

**G04: In Vivo Micronucleus Summary Data**

Test Compound: Melamine

CAS Number: 108-78-1

Date Report Requested: 09/19/2018

Time Report Requested: 11:52:19

**NTP Study Number:**

039087

**Study Duration:**

96 Hours

**Study Methodology:**

Slide Scoring

**Male Study Result:**

Negative

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Tissue: Blood; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 48 h

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Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control <sup>1</sup>	5	2.70 ± 0.25		1.24 ± 0.07
500.0	5	3.50 ± 0.91	0.1544	1.48 ± 0.14
1000.0	5	2.40 ± 0.56	0.6630	1.10 ± 0.13
2000.0	3	1.50 ± 0.76	0.9395	1.20 ± 0.35
Trend p-Value		0.9640		

Trial Summary: Negative

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

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		MN PCE/1000		% PCE	
Dose (mg/kg)	N	Mean ± SEM	p-Value	Mean ± SEM	
Vehicle Control <sup>1</sup>	5	4.10 ± 0.73		4.06 ± 0.15	
1000.0	5	3.60 ± 0.93	0.7160	3.90 ± 0.43	
2000.0	5	4.30 ± 0.56	0.4135	3.26 ± 0.32	
Trend p-Value		0.4110			
Positive Control <sup>2</sup>	5	8.40 ± 0.40	< 0.001 *	2.38 ± 0.15	

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Trial Summary: Negative

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

		MN PCE/1000		% PCE
Dose (mg/kg)	N	Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control <sup>1</sup>	5	2.10 ± 0.62		57.30 ± 1.25
500.0	5	1.80 ± 0.34	0.6847	56.60 ± 0.98
1000.0	5	2.20 ± 0.25	0.4393	57.10 ± 2.66
2000.0	5	3.80 ± 0.70	0.0133	56.10 ± 2.41
Trend p-Value		0.0030 *		
Positive Control <sup>2</sup>	5	6.90 ± 0.87	< 0.001 *	50.80 ± 2.99

Trial Summary: Negative

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

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		MN PCE/1000		% PCE	
Dose (mg/kg)	N	Mean ± SEM	p-Value	Mean ± SEM	
Vehicle Control <sup>1</sup>	5	4.60 ± 0.64		60.90 ± 5.56	
1000.0	5	4.20 ± 1.21	0.5963	51.70 ± 6.82	
2000.0	5	5.30 ± 1.59	0.3437	56.30 ± 4.82	
Trend p-Value		0.3400			
Positive Control <sup>2</sup>	5	8.40 ± 0.56	< 0.001 *	57.60 ± 3.04	

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Trial Summary: Negative

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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

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: Corn Oil

2: 12.5 mg/kg Dimethylbenzanthracene

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