

Experiment Number: A12130  
Test Type: Genetic Toxicology - Micronucleus  
Route: Intraperitoneal Injection  
Species/Strain: Mouse/B6C3F1

**G04: In Vivo Micronucleus Summary Data**

Test Compound: o-Toluidine  
CAS Number: 95-53-4

Date Report Requested: 09/20/2018  
Time Report Requested: 02:30:21

**NTP Study Number:** A12130  
**Study Duration:** 48 Hours  
**Study Methodology:** Slide Scoring  
**Male Study Result:** Negative

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Test Compound: o-Toluidine  
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Date Report Requested: 09/20/2018  
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Tissue: Bone marrow; Sex: Male; Number of Treatments: 1; Time interval between final treatment and cell sampling: 24 h

Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control <sup>1</sup>	5	2.10 ± 0.62		51.40 ± 0.56
100.0	5	1.80 ± 0.54	0.6462	56.90 ± 3.30
200.0	5	2.20 ± 0.41	0.4526	53.90 ± 3.24
300.0	5	1.70 ± 0.56	0.6937	51.70 ± 2.61
400.0	5	3.20 ± 0.83	0.1190	55.50 ± 2.24
Trend p-Value		0.1350		
Positive Control <sup>2</sup>	5	14.10 ± 1.13	< 0.001 *	44.40 ± 2.53

Trial Summary: Negative

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Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control <sup>1</sup>	5	1.70 ± 0.51		45.30 ± 3.71
100.0	5	1.30 ± 0.41	0.7048	46.70 ± 6.18
200.0	4	3.75 ± 1.36	0.0243	53.13 ± 1.95
300.0	5	0.90 ± 0.29	0.8762	47.40 ± 4.85
400.0	5	1.00 ± 0.45	0.8396	46.20 ± 5.45
Trend p-Value		0.8490		
Positive Control <sup>2</sup>	5	6.00 ± 0.79	< 0.001 *	53.60 ± 2.46

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		MN PCE/1000		% PCE	
Dose (mg/kg)	N	Mean ± SEM	p-Value	Mean ± SEM	
Vehicle Control <sup>1</sup>	5	2.20 ± 0.49		6.90 ± 0.40	
100.0	5	2.90 ± 0.93	0.1632	7.00 ± 0.57	
200.0	4	2.38 ± 0.24	0.4033	7.00 ± 0.35	
300.0	5	2.60 ± 0.40	0.2816	5.70 ± 0.73	
400.0	5	3.50 ± 0.47	0.0423	6.10 ± 1.07	
Trend p-Value		0.0820			
Positive Control <sup>2</sup>	5	18.00 ± 2.92	< 0.001 *	6.20 ± 0.37	

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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: 25.0 mg/kg Cyclophosphamide

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