

Experiment Number: A10316  
Test Type: Genetic Toxicology - Micronucleus  
Route: Intraperitoneal Injection  
Species/Strain: Rat/Fischer 344

**G04: In Vivo Micronucleus Summary Data**

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

Date Report Requested: 09/20/2018  
Time Report Requested: 02:01:50

**NTP Study Number:** A10316  
**Study Duration:** 72 Hours  
**Study Methodology:** Slide Scoring  
**Male Study Result:** Positive

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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	1.50 ± 0.42		27.30 ± 3.46	
200.0	5	2.50 ± 0.74	0.0567	44.60 ± 3.06	
400.0	4	3.25 ± 0.48	0.0072 *	27.75 ± 4.13	
Trend p-Value		0.0080 *			
Positive Control <sup>2</sup>	4	12.75 ± 1.30	< 0.001 *	23.63 ± 1.43	

Trial Summary: Positive

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Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control <sup>1</sup>	5	0.80 ± 0.20		34.20 ± 3.37
200.0	5	2.10 ± 0.75	0.0664	49.40 ± 3.26
300.0	5	2.10 ± 0.58	0.0664	32.20 ± 3.64
400.0	5	5.40 ± 1.73	< 0.001 *	41.90 ± 3.21
Trend p-Value		< 0.001 *		
Positive Control <sup>2</sup>	3	53.00 ± 8.66	< 0.001 *	6.83 ± 1.30

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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 \*\***