

Experiment Number: **A90482**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Intraperitoneal Injection**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data

Test Compound: **m-Nitrotoluene**
CAS Number: **99-08-1**

Date Report Requested: **09/21/2018**

Time Report Requested: **09:45:53**

NTP Study Number: A90482
Study Duration: 96 Hours
Study Methodology: Slide Scoring
Male Study Result: Negative

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Tissue: Blood; Sex: Male; Number of Treatments: 1; Time interval between final treatment and cell sampling: 48 h

		MN PCE/1000		% PCE	
Dose (mg/kg)	N	Mean ± SEM	p-Value	Mean ± SEM	
Vehicle Control ¹	5	2.30 ± 0.60		20.80 ± 1.66	
312.5	5	2.10 ± 0.75	0.5753	19.90 ± 2.52	
625.0	5	2.50 ± 0.91	0.4278	21.20 ± 3.16	
Trend p-Value		0.4260			
Positive Control ²	5	6.10 ± 0.78	< 0.001 *	20.30 ± 0.77	

Trial Summary: Negative

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G04: In Vivo Micronucleus Summary Data

Test Compound: m-Nitrotoluene
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Tissue: Bone marrow; Sex: Male; Number of Treatments: 1; Time interval between final treatment and cell sampling: 48 h

		MN PCE/1000		% PCE	
Dose (mg/kg)	N	Mean ± SEM	p-Value	Mean ± SEM	
Vehicle Control ¹	5	1.90 ± 0.33		43.00 ± 1.97	
312.5	5	1.90 ± 0.43	0.5000	41.80 ± 1.61	
625.0	5	1.10 ± 0.37	0.9281	43.30 ± 2.62	
Trend p-Value		0.9190			
Positive Control ²	5	3.70 ± 0.85	0.0080 *	45.90 ± 2.01	

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 ¹	5	1.20 ± 0.41		63.00 ± 3.89	
200.0	5	1.30 ± 0.34	0.4207	56.30 ± 4.13	
400.0	5	0.80 ± 0.34	0.8146	66.00 ± 3.94	
600.0	7	1.64 ± 0.34	0.1877	51.50 ± 4.60	
Trend p-Value		0.2300			
Positive Control ²	5	5.70 ± 1.48	< 0.001 *	55.40 ± 6.53	

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: Corn Oil

2: 25.0 mg/kg Cyclophosphamide

**** END OF REPORT ****