

Experiment Number: A80173
Test Type: Genetic Toxicology - Micronucleus
Route: Intraperitoneal Injection
Species/Strain: Rat/Fischer 344

G04: In Vivo Micronucleus Summary Data

Test Compound: o-Nitrotoluene
CAS Number: 88-72-2

Date Report Requested: 09/21/2018

Time Report Requested: 05:25:45

NTP Study Number:	A80173
Study Duration:	72 Hours
Study Methodology:	Slide Scoring
Male Study Result:	Negative

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

Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control ¹	5	0.60 ± 0.19		36.40 ± 3.59
625.0	5	1.50 ± 0.76	0.0705	32.90 ± 3.70
1250.0	3	0.33 ± 0.33	0.7079	32.17 ± 5.36
2500.0	5	0.80 ± 0.25	0.3444	25.20 ± 3.81
Trend p-Value		0.5820		
Positive Control ²	5	9.80 ± 2.18	< 0.001 *	35.00 ± 5.58

Trial Summary: Negative

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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 ¹	5	1.10 ± 0.19		36.60 ± 3.88
625.0	5	1.30 ± 0.41	0.3415	35.60 ± 4.18
1250.0	2	0.75 ± 0.25	0.7230	37.50 ± 2.50
2500.0	4	0.75 ± 0.25	0.7763	34.25 ± 4.63
Trend p-Value		0.8340		
Positive Control ²	5	13.40 ± 1.76	< 0.001 *	34.30 ± 2.96

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

Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control ¹	8	2.00 ± 0.92		33.63 ± 4.62
200.0	4	2.75 ± 0.78	0.2753	35.00 ± 5.56
400.0	4	1.75 ± 0.95	0.5853	23.13 ± 1.56
600.0	4	0.88 ± 0.31	0.8539	34.88 ± 2.94
800.0	4	0.88 ± 0.38	0.8539	35.38 ± 3.82
Trend p-Value		0.9250		

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 ****