

Experiment Number: 256727

Test Type: Genetic Toxicology - Micronucleus

Route: Intraperitoneal Injection

Species/Strain: Mouse/B6C3F1

**G04: In Vivo Micronucleus Summary Data**

Test Compound: 2,6-Toluenediamine dihydrochloride (2,6-diaminotoluene dihydrochloride)

CAS Number: 15481-70-6

Date Report Requested: 09/19/2018

Time Report Requested: 14:51:41

**NTP Study Number:**

256727

**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

Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control <sup>1</sup>	5	1.80 ± 0.41		28.90 ± 6.07
15.0	5	0.80 ± 0.34	0.9751	28.90 ± 2.49
30.0	5	1.40 ± 0.60	0.7604	20.70 ± 2.02
60.0	5	2.90 ± 0.68	0.0541	15.80 ± 3.20
Trend p-Value		0.0050 *		
Positive Control <sup>2</sup>	5	4.40 ± 0.73	< 0.001 *	28.30 ± 2.81

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	1.50 ± 0.27		16.80 ± 3.83
15.0	5	2.70 ± 0.60	0.0319	15.40 ± 2.25
30.0	5	2.50 ± 0.67	0.0567	20.90 ± 5.80
60.0	5	3.30 ± 0.56	0.0046 *	14.40 ± 2.18
Trend p-Value		0.0110 *		
Positive Control <sup>2</sup>	5	4.90 ± 0.62	< 0.001 *	16.00 ± 2.69

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Trial Summary: Positive

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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: Phosphate Buffered Saline

2: 0.2 mg/kg Mitomycin-C

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