

Experiment Number: A76244
Test Type: Genetic Toxicology - Micronucleus
Route: Intraperitoneal Injection
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: Methylene blue trihydrate
CAS Number: 7220-79-3

Date Report Requested: 09/21/2018

Time Report Requested: 04:18:47

NTP Study Number:	A76244
Study Duration:	48 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

Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control ¹	5	2.80 ± 0.51		2.70 ± 0.15
25.0	5	4.30 ± 0.75	0.0373	4.48 ± 0.34
50.0	4	2.63 ± 0.97	0.5886	3.78 ± 0.51
150.0	4	1.50 ± 0.35	0.9672	2.78 ± 0.81
Trend p-Value		0.9940		
Positive Control ²	5	8.40 ± 1.21	< 0.001 *	3.94 ± 0.46

Trial Summary: Negative

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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	1.10 ± 0.40		41.70 ± 4.71	
25.0	5	1.90 ± 0.53	0.0719	30.10 ± 4.77	
50.0	4	1.38 ± 0.24	0.2999	25.50 ± 3.20	
150.0	4	1.50 ± 0.20	0.2277	33.38 ± 3.22	
Trend p-Value		0.4010			
Positive Control ²	5	2.80 ± 0.58	0.0032 *	26.70 ± 5.01	

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 ****