

Experiment Number: 158726  
Test Type: Genetic Toxicology - Micronucleus  
Route: Intraperitoneal Injection  
Species/Strain: Mouse/B6C3F1

**G04: In Vivo Micronucleus Summary Data**

Test Compound: 8-Methoxypsoralen  
CAS Number: 298-81-7

Date Report Requested: 09/19/2018

Time Report Requested: 13:29:58

<b>NTP Study Number:</b>	158726
<b>Study Duration:</b>	72 Hours
<b>Study Methodology:</b>	Slide Scoring
<b>Male Study Result:</b>	Equivocal

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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)	MN PCE/1000			MN NCE/1000			% PCE
	N	Mean ± SEM	p-Value	N	Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control <sup>1</sup>	5	1.80 ± 0.85		5	0.00 ± 0.00		38.80 ± 1.16
50.0	4	1.75 ± 0.78	0.5179	4	0.00 ± 0.00	0.5000	41.00 ± 1.80
100.0	4	1.75 ± 0.78	0.5179	3	0.00 ± 0.00	0.5000	41.30 ± 1.27
200.0	3	3.50 ± 1.15	0.1150	3	0.00 ± 0.00	0.5000	22.20 ± 4.21
Trend p-Value		0.1050					
Positive Control <sup>2</sup>	5	10.60 ± 1.54	< 0.001 *	5	0.00 ± 0.00	0.5000	33.50 ± 2.52
Trial Summary: Equivocal							

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Dose (mg/kg)	N	MN PCE/1000		N	MN NCE/1000		% PCE
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control <sup>1</sup>	5	1.70 ± 0.44		5	0.00 ± 0.00		35.94 ± 2.38
50.0	5	1.20 ± 0.34	0.8236	5	0.00 ± 0.00	0.5000	36.28 ± 2.05
100.0	6	2.17 ± 0.28	0.2176	6	0.00 ± 0.00	0.5000	34.30 ± 2.52
Trend p-Value		0.1820					
Positive Control <sup>2</sup>	5	5.20 ± 0.64	< 0.001 *	5	0.00 ± 0.00	0.5000	37.76 ± 1.35

Trial Summary: Equivocal

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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		N	MN NCE/1000		% PCE
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control <sup>1</sup>	5	0.80 ± 0.34		5	0.00 ± 0.00		20.16 ± 1.27
50.0	5	1.30 ± 0.25	0.1375	5	0.00 ± 0.00	0.5000	24.20 ± 1.14
100.0	5	1.20 ± 0.30	0.1854	5	0.00 ± 0.00	0.5000	16.06 ± 2.88
200.0	5	1.80 ± 0.58	0.0249	5	0.00 ± 0.00	0.5000	17.82 ± 2.10
Trend p-Value		0.0310					
12.5 mg/kg Positive Control <sup>2</sup>	5	2.80 ± 0.90	< 0.001 *	5	0.00 ± 0.00	0.5000	20.16 ± 1.80
25.0 mg/kg Positive Control <sup>3</sup>	5	4.70 ± 1.02	< 0.001 *	5	0.00 ± 0.00	0.5000	23.22 ± 1.64
Trial Summary: Equivocal							

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Dose (mg/kg)	N	MN PCE/1000		N	MN NCE/1000		% PCE
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control <sup>1</sup>	5	0.70 ± 0.20		5	0.00 ± 0.00		24.82 ± 2.06
50.0	5	0.90 ± 0.37	0.3085	5	0.00 ± 0.00	0.5000	26.58 ± 2.11
100.0	3	1.67 ± 0.93	0.0346	3	0.00 ± 0.00	0.5000	27.33 ± 2.06
175.0	3	4.17 ± 1.36	< 0.001 *	3	0.00 ± 0.00	0.5000	19.97 ± 2.57
200.0	2	3.25 ± 0.75	< 0.001 *	2	0.00 ± 0.00	0.5000	16.85 ± 4.95
Trend p-Value		< 0.001 *					
Positive Control <sup>2</sup>	5	3.10 ± 1.07	< 0.001 *	5	0.00 ± 0.00	0.5000	24.82 ± 4.29
Trial Summary: Equivocal							

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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: 12.5 mg/kg Dimethylbenzanthracene

3: 25.0 mg/kg Dimethylbenzanthracene

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