

Experiment Number: 241132

Test Type: Genetic Toxicology - Micronucleus

Route: Intraperitoneal Injection

Species/Strain: Mouse/B6C3F1

**G04: In Vivo Micronucleus Summary Data**

Test Compound: 5-Methoxypsoralen

CAS Number: 484-20-8

Date Report Requested: 09/19/2018

Time Report Requested: 14:25:09

**NTP Study Number:**

241132

**Study Duration:**

96 Hours

**Study Methodology:**

Slide Scoring

**Male Study Result:**

Negative

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Tissue: Blood; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 48 h

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Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control <sup>1</sup>	5	1.80 ± 0.46		3.42 ± 0.49
200.0	4	2.38 ± 0.80	0.2719	3.38 ± 0.55
300.0	3	1.67 ± 0.93	0.5557	3.53 ± 1.07
Trend p-Value		0.4530		

Trial Summary: 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		N	MN NCE/1000		% PCE
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control <sup>1</sup>	5	2.00 ± 0.16		5	0.00 ± 0.00		6.94 ± 3.21
50.0	5	2.10 ± 0.33	0.4379	5	0.00 ± 0.00	0.5000	4.78 ± 0.49
100.0	5	2.80 ± 0.37	0.1238	5	0.00 ± 0.00	0.5000	4.38 ± 0.52
200.0	5	1.50 ± 0.32	0.8012	5	0.00 ± 0.00	0.5000	4.04 ± 0.34
Trend p-Value		0.7700					
12.5 mg/kg Positive Control <sup>2</sup>	5	10.40 ± 1.20	< 0.001 *	5	0.00 ± 0.00	0.5000	2.52 ± 0.28
25.0 mg/kg Positive Control <sup>3</sup>	5	15.20 ± 1.31	< 0.001 *	5	0.00 ± 0.00	0.5000	3.14 ± 0.36

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 <sup>1</sup>	5	1.60 ± 0.24		40.64 ± 2.18
50.0	5	2.40 ± 0.46	0.1027	41.08 ± 1.51
100.0	5	1.80 ± 0.20	0.3657	41.72 ± 1.21
200.0	5	2.70 ± 0.34	0.0465	41.22 ± 3.13
Trend p-Value		0.0790		
Positive Control <sup>2</sup>	5	8.90 ± 2.12	< 0.001 *	41.86 ± 1.29

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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>	4	2.13 ± 0.38		35.28 ± 3.01
50.0	5	1.90 ± 0.84	0.6315	42.68 ± 2.61
100.0	5	0.80 ± 0.20	0.9912	36.82 ± 1.88
200.0	5	2.00 ± 0.22	0.5730	33.40 ± 2.84
Trend p-Value		0.5980		
Positive Control <sup>2</sup>	4	5.75 ± 0.72	< 0.001 *	45.30 ± 3.04

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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		N	MN NCE/1000		% PCE
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control <sup>1</sup>	5	1.00 ± 0.22		4	0.00 ± 0.00		45.78 ± 1.52
50.0	5	1.70 ± 0.66	0.1555	4	0.00 ± 0.00	0.5000	43.00 ± 2.32
100.0	5	1.80 ± 0.34	0.1278	4	0.00 ± 0.00	0.5000	43.30 ± 2.25
200.0	5	1.90 ± 0.80	0.1044	4	0.00 ± 0.00	0.5000	42.78 ± 1.78
Trend p-Value		0.1400					
12.5 mg/kg Positive Control <sup>2</sup>	5	6.10 ± 1.12	< 0.001 *	5	0.00 ± 0.00	0.5000	40.88 ± 4.15
25.0 mg/kg Positive Control <sup>3</sup>	5	8.10 ± 1.65	< 0.001 *	5	0.00 ± 0.00	0.5000	41.54 ± 3.77

Trial Summary: Negative

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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 \*\***