

Experiment Number: A09015

Test Type: Genetic Toxicology - Micronucleus

Route: Intraperitoneal Injection

Species/Strain: Mouse/B6C3F1

**G04: In Vivo Micronucleus Summary Data**

Test Compound: Tetrakis(hydroxymethyl)phosphonium chloride

CAS Number: 124-64-1

Date Report Requested: 09/20/2018

Time Report Requested: 01:26:03

**NTP Study Number:**

A09015

**Study Duration:**

72 Hours

**Study Methodology:**

Slide Scoring

**Male Study Result:**

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		N	MN NCE/1000		% PCE
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control <sup>1</sup>	5	1.70 ± 0.46		2	0.00 ± 0.00		42.50 ± 1.10
12.5	5	1.70 ± 0.44	0.5000	1	0.00 ± 0.00	< 0.001 *	39.20 ± 0.00
25.0	5	1.10 ± 0.19	0.8717	2	0.00 ± 0.00	0.5000	44.25 ± 2.25
50.0	5	1.40 ± 0.56	0.7051	3	0.00 ± 0.00	0.5000	42.43 ± 2.07
75.0	4	2.88 ± 0.63	0.0481	4	0.00 ± 0.00	0.5000	39.88 ± 3.76
100.0	1	2.50 ± 0.00	< 0.001 *	1	0.00 ± 0.00	< 0.001 *	40.00 ± 0.00
Trend p-Value		0.0480					
Positive Control <sup>2</sup>	5	13.10 ± 1.20	< 0.001 *	5	0.00 ± 0.00	0.5000	48.38 ± 2.32
Trial Summary: Negative							

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		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control <sup>1</sup>	5	0.60 ± 0.29		4	0.00 ± 0.00		45.05 ± 1.39
45.0	4	1.25 ± 0.14	0.0730	4	0.00 ± 0.00	0.5000	42.08 ± 3.18
55.0	4	0.88 ± 0.52	0.2475	2	0.00 ± 0.00	0.5000	40.65 ± 4.95
65.0	4	1.63 ± 0.63	0.0177	3	0.00 ± 0.00	0.5000	35.90 ± 2.83
75.0	5	2.40 ± 0.62	< 0.001 *	3	0.00 ± 0.00	0.5000	30.63 ± 1.69
Trend p-Value		0.0010 *					
Positive Control <sup>2</sup>	5	9.20 ± 1.22	< 0.001 *	5	0.00 ± 0.00	0.5000	44.06 ± 2.73
Trial Summary: Negative							

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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	1.30 ± 0.20		1	0.00 ± 0.00		43.90 ± 0.00
25.0	5	0.80 ± 0.30	0.8625	2	0.00 ± 0.00	0.5000	48.50 ± 0.60
50.0	4	2.13 ± 0.52	0.0888	2	0.00 ± 0.00	0.5000	42.10 ± 5.60
Trend p-Value		0.0860					
Positive Control <sup>2</sup>	5	8.90 ± 1.81	< 0.001 *	5	0.00 ± 0.00	0.5000	50.76 ± 3.32

Trial Summary: Negative

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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	2.20 ± 0.20		2	0.00 ± 0.00		45.15 ± 4.75
45.0	5	1.50 ± 0.42	0.8753	2	0.00 ± 0.00	0.5000	48.85 ± 0.15
55.0	2	2.50 ± 0.00	0.3685	1	0.00 ± 0.00	< 0.001 *	29.60 ± 0.00
65.0	1	1.50 ± 0.00	< 0.001 *				59.80 ± 0.00
75.0	4	1.13 ± 0.43	0.9580	4	0.00 ± 0.00	0.5000	30.45 ± 1.39
Trend p-Value		0.9310					
Positive Control <sup>2</sup>	5	8.40 ± 1.24	< 0.001 *	5	0.00 ± 0.00	0.5000	51.54 ± 3.81

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: Phosphate Buffered Saline

2: 15.0 mg/kg Cyclophosphamide

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