

Experiment Number: A45799

Test Type: Genetic Toxicology - Micronucleus

Route: Gavage

Species/Strain: Rat/Fischer 344

**G04: In Vivo Micronucleus Summary Data**

Test Compound: Ethyl methanesulfonate

CAS Number: 62-50-0

Date Report Requested: 09/20/2018

Time Report Requested: 15:28:20

**NTP Study Number:**

A45799

**Study Duration:**

4 Days

**Study Methodology:**

Slide Scoring

**Male Study Result:**

Positive

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**Tissue: Blood; Sex: Male; Number of Treatments: 0; Time interval between final treatment and cell sampling: 0 h**

		MN PCE/1000	% PCE	
Dose (mg/kg)	N	Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control <sup>1</sup>	5	0.60 ± 0.19		1.78 ± 0.27
50.0	5	2.20 ± 0.46	0.0012 *	2.08 ± 0.18
100.0	5	4.40 ± 0.37	< 0.001 *	0.94 ± 0.15
200.0	3	15.91 ± 2.32	< 0.001 *	0.20 ± 0.06
300.0	1	27.00 ± 0.00	< 0.001 *	0.20 ± 0.00
Trend p-Value		< 0.001 *		

Trial Summary: Positive

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 0; Time interval between final treatment and cell sampling: 0 h

		MN PCE/1000		% PCE
Dose (mg/kg)	N	Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control <sup>1</sup>	5	0.90 ± 0.10		69.30 ± 2.88
50.0	5	4.40 ± 0.40	0.0013 *	63.80 ± 2.76
100.0	5	5.40 ± 0.83	< 0.001 *	48.80 ± 3.96
200.0	5	9.70 ± 1.56	< 0.001 *	42.60 ± 3.95
300.0	5	11.80 ± 3.71	< 0.001 *	48.30 ± 10.01
Trend p-Value		< 0.001 *		

Trial Summary: Positive

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Species/Strain: **Rat/Fischer 344**

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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

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