

Experiment Number: A58400

Test Type: Genetic Toxicology - Micronucleus

Route: Dosed-Feed

Species/Strain: Mouse/B6C3F1

**G04: In Vivo Micronucleus Summary Data**

Test Compound: Emodin

CAS Number: 518-82-1

Date Report Requested: 09/20/2018

Time Report Requested: 21:10:56

**NTP Study Number:**

A58400

**Study Duration:**

90 Days

**Study Methodology:**

Slide Scoring

**Male Study Result:**

Negative

**Female Study Result:**

Positive

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Tissue: Blood; Sex: Male; Number of Treatments: 90; Time interval between final treatment and cell sampling: 0 h

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<b>MN NCE/1000</b>			
<b>Dose (ppm)</b>	<b>N</b>	<b>Mean ± SEM</b>	<b>p-Value</b>
Vehicle Control <sup>1</sup>	10	1.22 ± 0.12	
312.0	10	1.49 ± 0.17	0.1425
625.0	10	1.32 ± 0.16	0.3391
1250.0	10	1.24 ± 0.23	0.4730
2500.0	10	1.33 ± 0.12	0.3313
5000.0	10	1.38 ± 0.20	0.2590
Trend p-Value		0.4060	
Positive Control <sup>2</sup>	3	17.08 ± 1.75	< 0.001 *

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Trial Summary: Negative

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Tissue: Blood; Sex: Female; Number of Treatments: 90; Time interval between final treatment and cell sampling: 0 h

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<b>MN NCE/1000</b>			
<b>Dose (ppm)</b>	<b>N</b>	<b>Mean ± SEM</b>	<b>p-Value</b>
Vehicle Control <sup>1</sup>	10	0.74 ± 0.08	
312.0	10	0.71 ± 0.09	0.5832
625.0	10	0.57 ± 0.07	0.8808
1250.0	10	0.82 ± 0.10	0.2895
2500.0	10	0.93 ± 0.10	0.1014
5000.0	10	1.05 ± 0.14	0.0250
Trend p-Value		0.0010 *	

Trial Summary: Positive

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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: Feed

2: 0.2 ppm Urne

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