

Experiment Number: A88319
Test Type: Genetic Toxicology - Micronucleus
Route: Intraperitoneal Injection
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: Emodin
CAS Number: 518-82-1

Date Report Requested: 09/21/2018
Time Report Requested: 08:54:44

NTP Study Number:	A88319
Study Duration:	72 Hours
Study Methodology:	Slide Scoring
Male Study Result:	Negative
Female Study Result:	Negative

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Tissue: Blood; 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 ¹	5	1.70 ± 0.25		8.50 ± 0.69
125.0	5	2.60 ± 0.75	0.1540	7.80 ± 0.99
250.0	5	2.10 ± 0.43	0.3149	5.70 ± 0.60
500.0	5	3.70 ± 1.19	0.0216	6.20 ± 0.90
Trend p-Value		0.0250 *		
Positive Control ²	4	23.88 ± 1.82	< 0.001 *	4.88 ± 0.43

Trial Summary: Negative

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Tissue: Blood; Sex: Female; 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 ¹	5	1.90 ± 0.24		6.60 ± 0.89
125.0	5	1.20 ± 0.41	0.8958	5.30 ± 0.25
250.0	5	1.10 ± 0.29	0.9281	6.00 ± 0.32
500.0	5	1.10 ± 0.37	0.9281	6.10 ± 0.84
Trend p-Value		0.9150		
Positive Control ²	5	13.80 ± 0.46	< 0.001 *	5.20 ± 0.78

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 ¹	5	1.30 ± 0.37		49.70 ± 3.42
125.0	5	1.50 ± 0.45	0.3526	44.20 ± 3.41
250.0	5	0.60 ± 0.19	0.9459	44.70 ± 3.08
500.0	5	1.30 ± 0.41	0.5000	47.10 ± 1.24
Trend p-Value		0.6260		
Positive Control ²	5	15.80 ± 0.98	< 0.001 *	38.80 ± 3.70

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 ¹	5	1.30 ± 0.25		49.30 ± 1.90
125.0	5	1.50 ± 0.27	0.3526	39.30 ± 1.47
250.0	4	1.63 ± 0.13	0.2842	30.63 ± 2.02
500.0	5	1.20 ± 0.20	0.5793	36.20 ± 4.05
Trend p-Value		0.6090		
Positive Control ²	5	11.20 ± 1.61	< 0.001 *	40.50 ± 2.12

Trial Summary: Negative

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Tissue: Bone marrow; Sex: Female; Number of Treatments: 3; Time interval between final treatment and cell sampling: 24 h

		MN PCE/1000		% PCE	
Dose (mg/kg)	N	Mean ± SEM	p-Value	Mean ± SEM	
Vehicle Control ¹	5	1.10 ± 0.19		49.70 ± 1.38	
125.0	5	0.90 ± 0.37	0.6727	50.40 ± 3.14	
250.0	5	0.60 ± 0.24	0.8875	51.80 ± 2.69	
500.0	5	1.30 ± 0.34	0.3415	42.20 ± 4.01	
Trend p-Value		0.3030			
Positive Control ²	5	10.00 ± 0.82	< 0.001 *	49.40 ± 4.93	

Trial Summary: Negative

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LEGEND

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: 25.0 mg/kg Cyclophosphamide

**** END OF REPORT ****