

Experiment Number: A67791
Test Type: Genetic Toxicology - Micronucleus
Route: Intraperitoneal Injection
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: 2,4-Decadienal
CAS Number: 25152-84-5

Date Report Requested: 09/21/2018

Time Report Requested: 00:45:37

NTP Study Number:	A67791
Study Duration:	72 Hours
Study Methodology:	Slide Scoring
Male Study Result:	Equivocal

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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	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control ¹	4	2.13 ± 0.55		3.98 ± 1.16
400.0	5	3.30 ± 0.58	0.0683	3.78 ± 0.59
600.0	5	3.60 ± 0.51	0.0348	3.02 ± 0.26
Trend p-Value		0.0340		
Positive Control ²	4	10.63 ± 0.72	< 0.001 *	3.13 ± 0.15

Trial Summary: Equivocal

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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	1.20 ± 0.37		54.20 ± 3.14
25.0	5	0.60 ± 0.19	0.9214	56.90 ± 1.54
50.0	5	1.00 ± 0.22	0.6652	55.30 ± 2.80
100.0	5	1.40 ± 0.24	0.3473	53.30 ± 2.84
200.0	4	1.50 ± 0.35	0.2918	48.50 ± 4.35
Trend p-Value		0.0840		
Positive Control ²	5	3.00 ± 0.42	0.0027 *	58.50 ± 1.96

Trial Summary: Equivocal

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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	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control ¹	5	0.60 ± 0.10		58.80 ± 4.53
400.0	5	0.70 ± 0.30	0.3907	40.20 ± 3.70
600.0	5	2.10 ± 0.29	0.0019 *	32.20 ± 3.67
Trend p-Value		0.0030 *		
Positive Control ²	5	3.50 ± 0.71	< 0.001 *	51.50 ± 5.65

Trial Summary: Equivocal

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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 ****