

Experiment Number: A53565

Test Type: Genetic Toxicology - Micronucleus

Route: Gavage

Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: 2,4-Hexadienal

CAS Number: 142-83-6

Date Report Requested: 09/20/2018

Time Report Requested: 18:42:40

NTP Study Number:

A53565

Study Duration:

13 Weeks

Study Methodology:

Slide Scoring

Male Study Result:

Negative

Female Study Result:

Negative

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Tissue: Blood; Sex: Male; Number of Treatments: 65; 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 [†]	10	0.70 ± 0.26		10	1.20 ± 0.25		2.52 ± 0.16
7.5				10	1.40 ± 0.34	0.3473	
15.0				10	1.60 ± 0.31	0.2247	
30.0				10	1.70 ± 0.21	0.1764	
60.0				10	1.30 ± 0.21	0.4207	
120.0	10	0.40 ± 0.16	0.8172	10	1.80 ± 0.36	0.1365	2.45 ± 0.11
Trend p-Value		0.8170			0.2150		

Trial Summary: Negative

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Tissue: Blood; Sex: Female; Number of Treatments: 65; 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 [†]	8	1.13 ± 0.30		8	2.25 ± 0.41		2.70 ± 0.18
7.5				10	1.60 ± 0.16	0.8409	
15.0				10	2.20 ± 0.42	0.5282	
30.0				10	1.80 ± 0.39	0.7490	
60.0				9	2.33 ± 0.44	0.4549	
120.0	10	1.50 ± 0.37	0.2466	10	2.10 ± 0.38	0.5851	2.58 ± 0.11
Trend p-Value		0.2470			0.3600		

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

**** END OF REPORT ****