

Experiment Number: A59578
Test Type: Genetic Toxicology - Micronucleus
Route: Intraperitoneal Injection
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: Allyl isothiocyanate
CAS Number: 57-06-7

Date Report Requested: 09/20/2018

Time Report Requested: 21:35:57

NTP Study Number:	A59578
Study Duration:	72 Hours
Study Methodology:	Slide Scoring
Male Study Result:	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	1.40 ± 0.19		21.78 ± 1.74
12.5	5	0.60 ± 0.19	0.9633	23.54 ± 2.84
25.0	5	1.70 ± 0.34	0.2949	24.30 ± 2.56
37.5	2	1.50 ± 0.50	0.4437	19.50 ± 1.30
Trend p-Value		0.2290		
Positive Control ²	5	18.80 ± 1.38	< 0.001 *	19.98 ± 0.89

Trial Summary: Negative

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Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control ¹	5	1.00 ± 0.22		28.00 ± 1.27
25.0	5	1.00 ± 0.39	0.5000	23.80 ± 1.70
50.0	3	2.67 ± 1.01	0.0056 *	26.03 ± 0.99
Trend p-Value		0.0060 *		
12.5 mg/kg Positive Control ²	5	8.00 ± 1.24	< 0.001 *	27.04 ± 1.86
25.0 mg/kg Positive Control ³	5	13.30 ± 1.06	< 0.001 *	26.50 ± 2.36

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: Dimethyl Sulfoxide

2: 12.5 mg/kg Dimethylbenzanthracene

3: 25.0 mg/kg Dimethylbenzanthracene

**** END OF REPORT ****