

Experiment Number: A59017
Test Type: Genetic Toxicology - Micronucleus
Route: Intraperitoneal Injection
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: Nitrofurazone
CAS Number: 59-87-0

Date Report Requested: 09/20/2018
Time Report Requested: 21:20:56

NTP Study Number: A59017
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		N	MN NCE/1000		% PCE
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control ¹	5	1.60 ± 0.19		3	0.00 ± 0.00		45.57 ± 2.31
12.5	5	0.80 ± 0.25	0.9489	2	0.00 ± 0.00	0.5000	49.30 ± 0.10
25.0	5	1.30 ± 0.34	0.7114	3	0.00 ± 0.00	0.5000	44.97 ± 1.96
50.0	4	1.38 ± 0.69	0.6508	3	0.00 ± 0.00	0.5000	43.00 ± 3.98
75.0	5	1.30 ± 0.54	0.7114	4	0.00 ± 0.00	0.5000	41.95 ± 2.43
Trend p-Value		0.4780					
Positive Control ²	5	12.60 ± 0.58	< 0.001 *	5	0.00 ± 0.00	0.5000	51.72 ± 1.41

Trial Summary: Negative

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Dose (mg/kg)	MN PCE/1000			MN NCE/1000			% PCE
	N	Mean ± SEM	p-Value	N	Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control ¹	5	0.30 ± 0.12		2	0.00 ± 0.00		41.70 ± 3.00
12.5	5	1.30 ± 0.44	0.0062 *	2	0.00 ± 0.00	0.5000	46.35 ± 3.25
25.0	3	1.50 ± 0.58	0.0036 *	3	0.00 ± 0.00	0.5000	46.03 ± 2.13
50.0	5	1.30 ± 0.37	0.0062 *				54.20 ± 1.83
75.0	4	1.75 ± 0.43	< 0.001 *	2	0.00 ± 0.00	0.5000	45.15 ± 2.35
Trend p-Value		0.0090 *					
Positive Control ²	5	13.00 ± 1.91	< 0.001 *	5	0.00 ± 0.00	0.5000	47.48 ± 3.94

Trial Summary: Negative

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Dose (mg/kg)	N	MN PCE/1000		N	MN NCE/1000		% PCE
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM
Vehicle Control ¹	5	0.90 ± 0.29		3	0.00 ± 0.00		46.43 ± 0.97
25.0	5	0.30 ± 0.20	0.9584	1	0.00 ± 0.00	< 0.001 *	47.90 ± 0.00
50.0	5	1.10 ± 0.37	0.3273	2	0.00 ± 0.00	0.5000	44.75 ± 4.85
75.0	5	1.40 ± 0.56	0.1484	3	0.00 ± 0.00	0.5000	47.80 ± 1.30
Trend p-Value		0.0450					
Positive Control ²	5	17.70 ± 2.15	< 0.001 *	5	0.00 ± 0.00	0.5000	48.70 ± 1.46
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 ****