

Experiment Number: A51689
Test Type: Genetic Toxicology - Micronucleus
Route: Intraperitoneal Injection
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: Nitrofurantoin
CAS Number: 67-20-9

Date Report Requested: 09/20/2018
Time Report Requested: 17:57:49

NTP Study Number:	A51689
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	0.70 ± 0.25		2	0.00 ± 0.00		49.90 ± 0.00
12.5	5	1.50 ± 0.32	0.0440	2	0.00 ± 0.00	0.5000	46.80 ± 0.10
25.0	5	0.80 ± 0.25	0.3981	1	0.00 ± 0.00	< 0.001 *	48.40 ± 0.00
50.0	5	0.80 ± 0.20	0.3981				62.98 ± 1.93
75.0	8	1.00 ± 0.25	0.2143	1	0.00 ± 0.00	< 0.001 *	49.40 ± 0.00
Trend p-Value		0.5250					
Positive Control ²	5	9.10 ± 0.99	< 0.001 *	5	0.00 ± 0.00	0.5000	53.22 ± 2.04

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	1.50 ± 0.27		3	0.00 ± 0.00		42.23 ± 3.87
12.5	4	1.38 ± 0.43	0.5868	2	0.00 ± 0.00	0.5000	43.50 ± 5.20
25.0	4	1.50 ± 0.41	0.5000	2	0.00 ± 0.00	0.5000	42.95 ± 2.45
50.0	5	1.70 ± 0.34	0.3617	1	0.00 ± 0.00	< 0.001 *	48.50 ± 0.00
75.0	5	1.10 ± 0.33	0.7838	5	0.00 ± 0.00	0.5000	44.10 ± 2.18
Trend p-Value		0.6900					
Positive Control ²	5	11.20 ± 1.34	< 0.001 *	5	0.00 ± 0.00	0.5000	36.52 ± 4.76
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 ****