

Experiment Number: 521899
Test Type: Genetic Toxicology - Micronucleus
Route: Intraperitoneal Injection
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: L-Ascorbic acid
CAS Number: 50-81-7

Date Report Requested: 09/19/2018

Time Report Requested: 17:53:16

NTP Study Number:	521899
Study Duration:	96 Hours
Study Methodology:	Slide Scoring
Male Study Result:	Positive

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Tissue: Blood; Sex: Male; Number of Treatments: 3; 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	3.30 ± 0.58		5.40 ± 0.93
250.0	5	5.60 ± 2.46	0.0980	4.90 ± 0.48
500.0	5	3.80 ± 0.87	0.3766	5.10 ± 0.89
1000.0	6	3.83 ± 0.57	0.3638	6.25 ± 1.09
Trend p-Value		0.5560		

Trial Summary: Positive

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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	2.00 ± 0.27		50.60 ± 1.16
500.0	5	2.60 ± 0.62	0.1879	71.60 ± 2.06
1000.0	5	3.60 ± 0.80	0.0161	67.90 ± 4.29
1500.0	4	5.50 ± 0.74	< 0.001 *	28.00 ± 3.47
Trend p-Value		< 0.001 *		
Positive Control ²	5	8.50 ± 1.51	< 0.001 *	60.60 ± 1.38

Trial Summary: Positive

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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	1.60 ± 0.48		59.20 ± 2.31
500.0	5	4.40 ± 0.71	< 0.001 *	53.90 ± 5.08
1000.0	5	1.90 ± 0.10	0.3059	45.00 ± 6.31
1500.0	3	4.67 ± 0.67	< 0.001 *	28.50 ± 4.19
Trend p-Value		0.0160 *		
Positive Control ²	5	6.70 ± 1.02	< 0.001 *	47.00 ± 4.95

Trial Summary: Positive

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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: Phosphate Buffered Saline

2: 0.2 mg/kg Mitomycin-C

**** END OF REPORT ****