

Experiment Number: A98265
Test Type: Genetic Toxicology - Micronucleus
Route: Intraperitoneal Injection
Species/Strain: Rat/Fischer 344

G04: In Vivo Micronucleus Summary Data

Test Compound: Cumene
CAS Number: 98-82-8

Date Report Requested: 09/21/2018
Time Report Requested: 13:43:49

NTP Study Number:	A98265
Study Duration:	72 Hours
Study Methodology:	Slide Scoring
Male Study Result:	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	0.50 ± 0.16		50.20 ± 2.89
78.13	5	1.20 ± 0.25	0.0447	59.40 ± 5.07
156.25	5	1.20 ± 0.34	0.0447	64.80 ± 4.16
312.5	5	1.30 ± 0.54	0.0296	54.60 ± 3.06
625.0	5	0.80 ± 0.41	0.2026	45.10 ± 1.73
1250.0	5	2.60 ± 0.29	< 0.001 *	46.60 ± 4.83
2500.0	2	1.25 ± 0.25	0.0667	49.25 ± 2.75
Trend p-Value		0.0110 *		
Positive Control ²	5	17.30 ± 2.32	< 0.001 *	50.30 ± 4.34

Trial Summary: Positive

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Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control ¹	5	0.50 ± 0.27		53.20 ± 3.81
312.0	5	1.70 ± 0.20	0.0052 *	50.20 ± 1.03
625.0	5	1.40 ± 0.33	0.0194	47.60 ± 3.14
1250.0	5	1.80 ± 0.34	0.0033 *	44.50 ± 3.00
2500.0	3	1.50 ± 1.00	0.0192	54.33 ± 2.13
Trend p-Value		0.0850		
Positive Control ²	5	7.80 ± 1.63	< 0.001 *	38.70 ± 2.73

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: Corn Oil

2: 25.0 mg/kg Cyclophosphamide

**** END OF REPORT ****