

Experiment Number: A38322

Test Type: Genetic Toxicology - Micronucleus

Route: Gavage

Species/Strain: Mouse/P16(INK4A)(+/-) (C57BL/6)

G04: In Vivo Micronucleus Summary Data

Test Compound: Benzene

CAS Number: 71-43-2

Date Report Requested: 09/20/2018

Time Report Requested: 11:44:22

NTP Study Number:

A38322

Study Duration:

26 Weeks

Study Methodology:

Slide Scoring

Male Study Result:

Positive

Female Study Result:

Positive

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Tissue: Blood; Sex: Male; Number of Treatments: 130; Time interval between final treatment and cell sampling: 24 h

MN NCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ¹	15	2.00 ± 0.25	
25.0	15	4.33 ± 0.37	< 0.001 *
50.0	15	8.17 ± 0.50	< 0.001 *
100.0	15	11.97 ± 0.80	< 0.001 *
200.0	14	18.68 ± 1.18	< 0.001 *
Trend p-Value		< 0.001 *	

Trial Summary: Positive

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Tissue: Blood; Sex: Female; Number of Treatments: 130; Time interval between final treatment and cell sampling: 24 h

MN NCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ¹	15	1.40 ± 0.20	
25.0	15	2.43 ± 0.28	0.0019 *
50.0	15	2.50 ± 0.18	0.0011 *
100.0	15	3.50 ± 0.36	< 0.001 *
200.0	15	5.93 ± 0.45	< 0.001 *
Trend p-Value		< 0.001 *	

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

**** END OF REPORT ****