

Experiment Number: A41659
Test Type: Genetic Toxicology - Micronucleus
Route: Inhalation
Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: Acetonitrile
CAS Number: 75-05-8

Date Report Requested: 09/20/2018
Time Report Requested: 13:18:50

NTP Study Number:	A41659
Study Duration:	90 Days
Study Methodology:	Slide Scoring
Male Study Result:	Positive
Female Study Result:	Negative

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Tissue: Blood; Sex: Male; Number of Treatments: 65; Time interval between final treatment and cell sampling: 24 h

MN NCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ¹	10	1.41 ± 0.13	
100.0	10	1.90 ± 0.11	0.0241
200.0	10	1.70 ± 0.10	0.1090
400.0	10	2.35 ± 0.29	< 0.001 *
800.0	9	2.04 ± 0.28	0.0068
Trend p-Value		0.0070 *	

Trial Summary: Positive

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CAS Number: 75-05-8

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Tissue: Blood; Sex: Female; Number of Treatments: 65; Time interval between final treatment and cell sampling: 24 h

MN NCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ¹	10	1.31 ± 0.12	
100.0	10	1.15 ± 0.15	0.8010
200.0	10	1.61 ± 0.16	0.0778
400.0	9	1.72 ± 0.16	0.0288
800.0	6	1.58 ± 0.15	0.1308
Trend p-Value		0.0300	

Trial Summary: Negative

Experiment Number: **A41659**
Test Type: **Genetic Toxicology - Micronucleus**
Route: **Inhalation**
Species/Strain: **Mouse/B6C3F1**

G04: In Vivo Micronucleus Summary Data

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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: Solvent

**** END OF REPORT ****