

Experiment Number: A24621

Test Type: Genetic Toxicology - Micronucleus

Route: Dosed-Feed

Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: Theophylline

CAS Number: 58-55-9

Date Report Requested: 09/20/2018

Time Report Requested: 06:25:31

NTP Study Number:

A24621

Study Duration:

90 Days

Study Methodology:

Slide Scoring

Male Study Result:

Positive

Female Study Result:

Negative

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Date Report Requested: 09/20/2018
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Tissue: Blood; Sex: Male; Number of Treatments: 90; Time interval between final treatment and cell sampling: 24 h

MN NCE/1000			
Dose (%)	N	Mean ± SEM	p-Value
Vehicle Control ¹	10	1.89 ± 0.17	
0.1	10	1.70 ± 0.12	0.8641
0.2	10	2.02 ± 0.09	0.2348
0.4	10	2.21 ± 0.19	0.0445
Trend p-Value		0.0090 *	

Trial Summary: Positive

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Date Report Requested: 09/20/2018

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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 ²	10	1.90 ± 0.11	
75.0	9	1.81 ± 0.15	0.6682
150.0	10	2.04 ± 0.18	0.2220
300.0	7	2.42 ± 0.23	0.0067 *
Trend p-Value		0.0030 *	

Trial Summary: Positive

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G04: In Vivo Micronucleus Summary Data
Test Compound: Theophylline
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Tissue: Blood; Sex: Female; Number of Treatments: 90; Time interval between final treatment and cell sampling: 24 h

MN NCE/1000			
Dose (%)	N	Mean ± SEM	p-Value
Vehicle Control ¹	10	1.29 ± 0.13	
0.1	10	1.73 ± 0.20	0.0320
0.2	10	1.55 ± 0.10	0.1292
0.4	10	1.83 ± 0.24	0.0128
Trend p-Value		0.0320	

Trial Summary: Negative

Experiment Number: A24621
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Species/Strain: Mouse/B6C3F1

G04: In Vivo Micronucleus Summary Data

Test Compound: Theophylline
CAS Number: 58-55-9

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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 ²	9	1.61 ± 0.20	
75.0	10	0.91 ± 0.13	0.9995
150.0	9	1.49 ± 0.15	0.6863
Trend p-Value		0.7100	

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: Feed

2: Vehicle Control: Solvent

**** END OF REPORT ****