

Experiment Number: A19873

Test Type: Genetic Toxicology - Micronucleus

Route: Gavage

Species/Strain: Mouse/TGAC (FVB/N)
HOMOZYGOUS

G04: In Vivo Micronucleus Summary Data

Test Compound: Melphalan

CAS Number: 148-82-3

Date Report Requested: 09/20/2018

Time Report Requested: 05:11:39

NTP Study Number:

A19873

Study Duration:

26 Weeks

Study Methodology:

Slide Scoring

Male Study Result:

Weakly Positive

Female Study Result:

Positive

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G04: In Vivo Micronucleus Summary Data

Test Compound: Melphalan
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Date Report Requested: 09/20/2018
Time Report Requested: 05:11:39

Tissue: Blood; Sex: Male; Number of Treatments: 26; Time interval between final treatment and cell sampling: 24 h

MN NCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ¹	12	0.71 ± 0.14	
0.25	10	0.20 ± 0.11	0.9704
1.0	13	0.81 ± 0.19	0.3773
4.0	15	1.60 ± 0.41	0.0106
Trend p-Value		< 0.001 *	

Trial Summary: Weakly Positive

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Tissue: Blood; Sex: Female; Number of Treatments: 26; Time interval between final treatment and cell sampling: 24 h

MN NCE/1000			
Dose (mg/kg)	N	Mean ± SEM	p-Value
Vehicle Control ¹	14	1.25 ± 0.30	
0.25	11	1.18 ± 0.34	0.5588
1.0	11	1.91 ± 0.51	0.1013
4.0	13	2.65 ± 0.40	0.0056 *
Trend p-Value		0.0010 *	

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 ****