

Experiment Number: 141321  
Test Type: Genetic Toxicology - Micronucleus  
Route: Intraperitoneal Injection  
Species/Strain: Mouse/B6C3F1

**G04: In Vivo Micronucleus Summary Data**

Test Compound: Melphalan  
CAS Number: 148-82-3

Date Report Requested: 09/19/2018  
Time Report Requested: 13:07:03

**NTP Study Number:** 141321  
**Study Duration:** 24 Days  
**Study Methodology:** Slide Scoring  
**Male Study Result:** Positive

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Tissue: Bone marrow; Sex: Male; Number of Treatments: 2; Time interval between final treatment and cell sampling: 24 h

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<b>MN PCE/1000</b>			
<b>Dose (mg/kg)</b>	<b>N</b>	<b>Mean ± SEM</b>	<b>p-Value</b>
Vehicle Control <sup>1</sup>	5	1.90 ± 0.48	
1.25	5	10.60 ± 1.42	< 0.001 *
2.5	5	25.80 ± 1.76	< 0.001 *
5.0	7	31.79 ± 2.01	< 0.001 *
Trend p-Value		< 0.001 *	
Positive Control <sup>2</sup>	5	31.40 ± 6.42	< 0.001 *

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Trial Summary: Positive

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LEGEND

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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: 100.0 mg/kg Dimethylbenzanthracene

**\*\* END OF REPORT \*\***