

Experiment Number: A57655

Test Type: Genetic Toxicology - Micronucleus

Route: Inhalation

Species/Strain: Mouse/B6C3F1

**G04: In Vivo Micronucleus Summary Data**

Test Compound: Cobalt

CAS Number: 7440-48-4

Date Report Requested: 09/20/2018

Time Report Requested: 20:45:50

**NTP Study Number:**

A57655

**Study Duration:**

13 Weeks

**Study Methodology:**

Slide Scoring

**Male Study Result:**

Negative

**Female Study Result:**

Negative

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Tissue: Blood; Sex: Male; Number of Treatments: 5; Time interval between final treatment and cell sampling: 24 h

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<b>MN NCE/1000</b>			
<b>Dose (mg/m3)</b>	<b>N</b>	<b>Mean ± SEM</b>	<b>p-Value</b>
Vehicle Control <sup>1</sup>	5	2.40 ± 0.33	
0.625	5	2.40 ± 0.33	0.5000
1.25	5	2.30 ± 0.37	0.5581
2.5	5	3.10 ± 0.19	0.1723
5.0	5	2.80 ± 0.34	0.2893
10.0	5	2.80 ± 0.37	0.2893
Trend p-Value		0.2360	

Trial Summary: Negative

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Tissue: Blood; Sex: Female; Number of Treatments: 5; Time interval between final treatment and cell sampling: 24 h

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<b>MN NCE/1000</b>			
<b>Dose (mg/m3)</b>	<b>N</b>	<b>Mean ± SEM</b>	<b>p-Value</b>
Vehicle Control <sup>1</sup>	5	2.50 ± 0.35	
0.625	5	2.60 ± 0.29	0.4442
1.25	5	2.00 ± 0.22	0.7722
2.5	5	2.80 ± 0.30	0.3399
5.0	5	2.00 ± 0.32	0.7722
10.0	5	2.30 ± 0.34	0.6137
Trend p-Value		0.6640	

Trial Summary: Negative

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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: Air

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