

Experiment Number: A31423  
Test Type: Genetic Toxicology - Micronucleus  
Route: Intraperitoneal Injection  
Species/Strain: Mouse/B6C3F1

**G04: In Vivo Micronucleus Summary Data**

Test Compound: Adriamycin, hydrochloride  
CAS Number: 25316-40-9

Date Report Requested: 09/20/2018

Time Report Requested: 09:07:11

<b>NTP Study Number:</b>	A31423
<b>Study Duration:</b>	72 Hours
<b>Study Methodology:</b>	Slide Scoring
<b>Male Study Result:</b>	Positive

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**G04: In Vivo Micronucleus Summary Data**  
Test Compound: Adriamycin, hydrochloride  
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Tissue: Bone marrow; Sex: Male; Number of Treatments: 3; Time interval between final treatment and cell sampling: 24 h

Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control <sup>1</sup>	5	1.20 ± 0.44		58.30 ± 3.67
10.0	5	9.90 ± 3.49	< 0.001 *	56.40 ± 4.05
20.0	5	5.20 ± 1.47	0.0229	62.90 ± 3.16
50.0	5	4.70 ± 1.80	0.0343	57.70 ± 4.51
Trend p-Value		0.3950		
Positive Control <sup>2</sup>	5	5.90 ± 0.91	< 0.001 *	66.90 ± 2.89

Trial Summary: Positive

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Dose (mg/kg)	N	MN PCE/1000	p-Value	% PCE
		Mean ± SEM		Mean ± SEM
Vehicle Control <sup>1</sup>	5	2.10 ± 0.56		61.70 ± 1.73
5.0	5	22.20 ± 3.54	< 0.001 *	49.10 ± 2.94
10.0	4	29.63 ± 3.04	< 0.001 *	30.88 ± 5.80
20.0	5	15.89 ± 4.07	< 0.001 *	16.70 ± 3.82
Trend p-Value		0.0020 *		
Positive Control <sup>2</sup>	4	14.00 ± 3.70	< 0.001 *	63.00 ± 7.86

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: Phosphate Buffered Saline

2: 15.0 mg/kg Cyclophosphamide

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