

Experiment Number: **G10949**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Gavage**

Species/Strain: **Mouse/C57BL/6**

G04: In Vivo Micronucleus Summary Data

Test Compound: **Acrylamide**

CAS Number: **79-06-1**

Date Report Requested: **09/23/2018**

Time Report Requested: **15:05:29**

NTP Study Number:

G10949

Study Duration:

4 Days

Study Methodology:

Flow Cytometry

Male Study Result:

Positive

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Dose (mg/kg)	N	MN PCE/1000		N	MN NCE/1000		% PCE	
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM	p-Value
Vehicle Control ¹	4	4.325 ± 0.280		4	2.057 ± 0.021		2.733 ± 0.695	
12.5	4	5.238 ± 0.308	0.0411	4	1.777 ± 0.104	0.9042	1.680 ± 0.177	0.0999
25.0	4	7.100 ± 0.240	< 0.001 *	4	1.940 ± 0.059	0.9325	1.203 ± 0.158	0.0562
50.0	4	10.188 ± 0.482	< 0.001 *	4	1.926 ± 0.075	0.9496	2.030 ± 0.424	0.0600
Trend p-Value		< 0.001 *			0.6743		0.4485	
Positive Control ²	4	17.938 ± 0.728	< 0.001 *	4	1.943 ± 0.025	0.9342	1.357 ± 0.042	0.0311

Trial Summary: Positive

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Dose (mg/kg)	N	MN PCE/1000		N	MN NCE/1000		% PCE	
		Mean ± SEM	p-Value		Mean ± SEM	p-Value	Mean ± SEM	p-Value
Vehicle Control ¹	4	3.603 ± 0.269		4	2.264 ± 0.111		2.102 ± 0.142	
12.5	4	5.676 ± 0.103	< 0.001 *	4	2.279 ± 0.061	0.7401	1.478 ± 0.069	0.0089 *
25.0	4	5.288 ± 0.105	< 0.001 *	4	2.058 ± 0.085	0.8211	1.520 ± 0.121	0.0104 *
50.0	4	9.313 ± 0.330	< 0.001 *	4	2.093 ± 0.120	0.8499	1.646 ± 0.143	0.0108 *
Trend p-Value		< 0.001 *			0.9316		0.1904	
Positive Control ²	4	25.913 ± 1.443	< 0.001 *	4	2.256 ± 0.036	0.5122	0.778 ± 0.074	< 0.001 *

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

Pairwise comparison with the control group; values are significant at $P \leq 0.025$ by Williams or Dunn's test

Dose-related trend; significant at $P \leq 0.025$ by linear regression or Jonckheere's test

* Statistically significant pairwise or trend test

1: Vehicle Control: Water

2: 150.0 mg/kg Ethyl Methane Sulfonate

**** END OF REPORT ****