

Experiment Number: **G10871**

Test Type: **Genetic Toxicology - Micronucleus**

Route: **Gavage**

Species/Strain: **Mouse/B6C3F1**

**G04: In Vivo Micronucleus Summary Data**

Test Compound: **Hydroxyurea**

CAS Number: **127-07-1**

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

Time Report Requested: **15:00:30**

**NTP Study Number:**

G10871

**Study Duration:**

4 Days

**Study Methodology:**

Flow Cytometry

**Male Study Result:**

Positive

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**Tissue: Blood; Sex: Male; Number of Treatments: 4; Time interval between final treatment and cell sampling: 28 h**

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 <sup>1</sup>	5	3.430 ± 0.190		5	1.485 ± 0.026		1.662 ± 0.083	
125.0	5	19.540 ± 1.248	< 0.001 *	5	1.627 ± 0.027	0.0075 *	0.434 ± 0.043	< 0.001 *
250.0	5	23.113 ± 2.337	< 0.001 *	5	1.555 ± 0.027	0.0087 *	0.138 ± 0.026	< 0.001 *
Trend p-Value		< 0.001 *			0.0905		< 0.001 *	
Positive Control <sup>2</sup>	5	10.787 ± 0.528	< 0.001 *	5	1.694 ± 0.037	0.0010 *	1.072 ± 0.066	< 0.001 *

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 <sup>1</sup>	5	2.780 ± 0.270		5	1.645 ± 0.123		1.289 ± 0.056	
32.0	5	2.700 ± 0.215	1.0000	5	1.641 ± 0.158	0.5717	1.345 ± 0.085	1.0000
64.0	5	3.230 ± 0.328	0.5662	5	1.566 ± 0.067	0.6593	1.313 ± 0.067	1.0000
125.0	5	16.570 ± 1.326	0.0038 *	5	1.641 ± 0.054	0.6305	0.482 ± 0.057	0.0360
Trend p-Value		< 0.001 *			0.5346		0.0128 *	
Positive Control <sup>2</sup>	5	17.420 ± 0.882	< 0.001 *	5	1.758 ± 0.035	0.2004	0.524 ± 0.052	< 0.001 *

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

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: Saline

2: 150.0 mg/kg Ethyl Methane Sulfonate

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