

Experiment Number: **G10871B**

Test Type: **Genetic Toxicology - In Vivo Alkaline Comet Assay**

Route: **Oral Gavage**

Species/Strain: **Mouse/B6C3F1**

**G01: In Vivo Alkaline Comet Summary Data**

Test Compound: **Hydroxyurea**

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

Date Report Requested: **03/20/2019**

Time Report Requested: **09:08:05**

**NTP Study Number:**

G10871B

**Study Duration:**

4 day

**Male Study Result:**

Negative

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

Dose (mg/kg/day)	N	Blood		Colon		
		Percent Tail DNA	p-Value	N	Percent Tail DNA	p-Value
Vehicle Control <sup>1</sup>	5	7.156 ± 0.674		5	15.658 ± 1.490	
1000	5	8.914 ± 0.449	0.0306	5	13.078 ± 1.378	0.7847
1500	0			5	12.959 ± 1.626	0.8599
2000	0			5	16.599 ± 1.679	0.4302
Trend p-Value		0.0308			0.4783	
Positive Control <sup>2</sup>	5	36.954 ± 1.762	< 0.001 *	5	42.918 ± 2.832	< 0.001 *

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

Dose (mg/kg/day)	N	Liver		Stomach		
		Percent Tail DNA	p-Value	N	Percent Tail DNA	p-Value
Vehicle Control <sup>1</sup>	5	19.063 ± 1.880		5	22.555 ± 0.470	
1000	5	22.785 ± 0.701	0.2147	5	22.148 ± 0.461	1.0000
1500	5	21.194 ± 1.787	0.2602	5	25.064 ± 3.082	1.0000
2000	5	22.310 ± 4.332	0.2458	5	21.094 ± 2.364	1.0000
Trend p-Value		0.1958			0.6568	
Positive Control <sup>2</sup>	5	43.612 ± 5.725	0.0019 *	5	42.058 ± 2.299	< 0.001 *

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LEGEND

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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: 0.9% Saline

2: 150 mg/kg/day Ethyl Methanesulfonate

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