

Experiment Number: **G10871C**

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: **09:08:25**

NTP Study Number:

G10871C

Study Duration:

4 day

Male Study Result:

Positive

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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 ¹	5	3.732 ± 0.292		5	21.705 ± 4.408	
32	5	3.425 ± 0.152	0.6963	5	13.379 ± 2.330	0.9677
64	5	3.492 ± 0.279	0.7801	5	13.118 ± 1.493	0.9871
125	5	3.457 ± 0.216	0.8140	5	11.976 ± 2.133	0.9917
250	5	3.416 ± 0.493	0.8304	5	10.677 ± 2.420	0.9941
Trend p-Value		0.7048			0.9815	
Positive Control ²	5	20.761 ± 1.290	0.0045 *	5	23.514 ± 0.926	0.3509

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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 ¹	5	8.233 ± 0.716		5	6.198 ± 0.427	
32	5	10.124 ± 1.212	0.1119	5	11.778 ± 1.334	0.5655
64	5	10.459 ± 1.273	0.1107	5	18.878 ± 1.245	0.0455
125	5	10.585 ± 1.250	0.1177	5	27.804 ± 5.105	0.0014 *
250	5	9.882 ± 0.757	0.1208	5	28.248 ± 1.790	< 0.001 *
Trend p-Value		0.2488			< 0.001 *	
Positive Control ²	5	25.000 ± 2.269	0.0045 *	5	34.975 ± 2.147	< 0.001 *

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LEGEND

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 ****