

Experiment Number: A38356

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: **N-Ethyl acetoacetamide**

CAS Number: **10138-46-2**

Date Report Requested: **08/30/2018**

Time Report Requested: **15:43:01**

**NTP Study Number:** A38356

**Study Duration:** 4 day

**Male Study Result:** Positive

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Test Compound: N-Ethyl acetoacetamide

CAS Number: 10138-46-2

Date Report Requested: 08/30/2018

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

Dose (mg/kg/day)	Blood			Liver		
	N	Percent Tail DNA	p-Value	N	Percent Tail DNA	p-Value
Vehicle Control <sup>1</sup>	5	7.030 ± 0.637		5	16.208 ± 0.755	
1000	5	9.032 ± 0.798	0.4006	5	23.383 ± 3.090	0.0094 *
1500	5	5.942 ± 0.508	0.4739	5	23.274 ± 1.603	0.0105 *
1750	5	10.752 ± 2.191	0.0306	5	23.687 ± 1.439	0.0083 *
Trend p-Value		0.1575			0.0033 *	
Positive Control <sup>2</sup>	5	23.482 ± 1.613	< 0.001 *	5	24.250 ± 0.876	< 0.001 *

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<b>Stomach</b>			
<b>Dose (mg/kg/day)</b>	<b>N</b>	<b>Percent Tail DNA</b>	<b>p-Value</b>
Vehicle Control <sup>1</sup>	5	16.458 ± 1.010	
1000	5	23.858 ± 2.409	0.0476
1500	5	20.873 ± 2.833	0.0570
1750	5	24.100 ± 2.719	0.0222 *
Trend p-Value		0.0246 *	
Positive Control <sup>2</sup>	5	25.439 ± 1.347	< 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: 25 mg/kg/day Cyclophosphamide

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