

Experiment Number: **G625489D**

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: **2-Nitroethanol**

CAS Number: **625-48-9**

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

Time Report Requested: **15:51:04**

**NTP Study Number:**

G625489D

**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	2.048 ± 0.151		5	15.658 ± 1.490	
250	5	2.099 ± 0.348	0.4425	5	13.078 ± 1.378	0.7847
500	3	2.282 ± 0.028	0.5490	5	12.959 ± 1.626	0.8599
1000	5	1.977 ± 0.167	0.5512	5	16.599 ± 1.679	0.4302
Trend p-Value		0.5998			0.2447	
Positive Control <sup>2</sup>	5	26.988 ± 1.801	0.0045 *	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	
250	5	22.785 ± 0.701	0.2147	5	22.148 ± 0.461	1.0000
500	5	21.194 ± 1.787	0.2602	5	25.064 ± 3.082	1.0000
1000	5	22.310 ± 4.332	0.2458	5	21.094 ± 2.364	1.0000
Trend p-Value		0.2488			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 \*\***