

Experiment Number: **G10512B**

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: **Epichlorohydrin**

CAS Number: **106-89-8**

Date Report Requested: **02/27/2019**

Time Report Requested: **11:08:22**

NTP Study Number:

G10512B

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) | Blood | | | Colon | | |
|-------------------------------|-------|------------------|----------|-------|------------------|---------|
| | N | Percent Tail DNA | p-Value | N | Percent Tail DNA | p-Value |
| Vehicle Control ¹ | 5 | 2.803 ± 0.412 | | 5 | 21.029 ± 5.626 | |
| 50 | 5 | 2.762 ± 0.442 | 0.5115 | 5 | 24.024 ± 4.045 | 0.5891 |
| 100 | 5 | 3.018 ± 0.233 | 0.4579 | 5 | 14.192 ± 2.306 | 0.6762 |
| 200 | 4 | 4.774 ± 1.020 | 0.0142 * | 4 | 26.823 ± 3.305 | 0.2237 |
| Trend p-Value | | 0.0082 * | | | 0.2950 | |
| Positive Control ² | 5 | 36.494 ± 0.848 | 0.0045 * | 5 | 35.765 ± 5.260 | 0.0459 |

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| Dose (mg/kg/day) | N | Liver | | Stomach | | |
|-------------------------------|---|------------------|-----------|---------|------------------|----------|
| | | Percent Tail DNA | p-Value | N | Percent Tail DNA | p-Value |
| Vehicle Control ¹ | 5 | 12.356 ± 1.378 | | 5 | 16.565 ± 0.999 | |
| 50 | 5 | 12.086 ± 0.543 | 0.5409 | 4 | 31.483 ± 5.119 | 0.0259 |
| 100 | 5 | 14.408 ± 0.682 | 0.0798 | 4 | 25.817 ± 4.138 | 0.0296 |
| 200 | 4 | 17.450 ± 0.917 | 0.0012 * | 4 | 30.006 ± 5.625 | 0.0201 * |
| Trend p-Value | | < 0.001 * | | | 0.0477 | |
| Positive Control ² | 5 | 38.324 ± 0.742 | < 0.001 * | 5 | 38.265 ± 6.619 | 0.0059 * |

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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: Corn Oil

2: 150 mg/kg/day Ethyl Methanesulfonate

**** END OF REPORT ****