

Experiment Number: **G04864B**

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

Route: **IP injection**

Species/Strain: **Rat/Wistar Han**

G01: In Vivo Alkaline Comet Summary Data

Test Compound: **Vincristine sulfate salt**

CAS Number: **2068-78-2**

Date Report Requested: **11/19/2018**

Time Report Requested: **10:25:58**

NTP Study Number:

G04864B

Study Duration:

4 day

Male Study Result:

Positive

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

| Dose (ug/kg/day) | N | Blood | | Colon | | |
|------------------------------|---|------------------|----------|-------|------------------|---------|
| | | Percent Tail DNA | p-Value | N | Percent Tail DNA | p-Value |
| Vehicle Control ¹ | 5 | 3.772 ± 0.314 | | 5 | 25.660 ± 3.044 | |
| 6.3 | 5 | 6.278 ± 0.977 | 0.0137 * | 5 | 30.673 ± 2.610 | 0.2329 |
| 12.5 | 5 | 6.151 ± 0.655 | 0.0159 * | 5 | 31.738 ± 4.433 | 0.2291 |
| 25 | 5 | 6.520 ± 0.735 | 0.0086 * | 5 | 35.727 ± 7.332 | 0.0969 |
| Trend p-Value | | 0.0207 * | | | 0.0705 | |

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| Dose (ug/kg/day) | N | Duodenum | | N | Liver | |
|------------------------------|---|------------------|---------|---|------------------|---------|
| | | Percent Tail DNA | p-Value | | Percent Tail DNA | p-Value |
| Vehicle Control ¹ | 5 | 48.297 ± 2.626 | | 5 | 16.497 ± 3.103 | |
| 6.3 | 5 | 55.715 ± 6.503 | 1.0000 | 5 | 30.605 ± 3.546 | 0.1041 |
| 12.5 | 5 | 38.794 ± 1.649 | 1.0000 | 5 | 13.001 ± 2.002 | 0.1264 |
| 25 | 5 | 47.045 ± 4.505 | 1.0000 | 5 | 22.075 ± 2.563 | 0.1200 |
| Trend p-Value | | 0.8436 | | | 0.4622 | |

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Stomach

| Dose (ug/kg/day) | N | Percent Tail DNA | p-Value |
|------------------------------|----------|-------------------------|----------------|
| Vehicle Control ¹ | 5 | 45.768 ± 3.650 | |
| 6.3 | 5 | 51.495 ± 2.792 | 0.6413 |
| 12.5 | 5 | 38.637 ± 4.481 | 0.7285 |
| 25 | 5 | 39.635 ± 3.579 | 0.7645 |
| Trend p-Value | | 0.9473 | |

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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

**** END OF REPORT ****