

Experiment Number: **G92027**

Test Type: **Genetic Toxicology - In Vitro  
Micronucleus**

**G03: In Vitro Micronucleus Summary Data**

Test Compound: **Indium (III) Chloride**

CAS Number: **10025-82-8**

Date Report Requested: **11/20/2018**

Time Report Requested: **09:06:49**

**NTP Study Number:**

G92027

**Cell Type:**

TK6

**Study Result:**

Positive

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**Duration: 4 h; Activation: Without S9**

| Dose (mM)                    | % Relative Survival | % Apoptosis | % RICC | % MN           |           |
|------------------------------|---------------------|-------------|--------|----------------|-----------|
|                              | Mean                | Mean        | Mean   | Mean ± SEM     | p-Value   |
| Vehicle Control <sup>1</sup> |                     | 1.28        |        | 0.435 ± 0.019  |           |
| 0.125                        | 97.2                | 1.16        | 108.3  | 0.427 ± 0.033  | 0.5129    |
| 0.5                          | 96.6                | 1.17        | 109.1  | 0.675 ± 0.098  | 0.0207 *  |
| 1.0                          | 90.3                | 1.49        | 90.5   | 0.718 ± 0.040  | 0.0095 *  |
| 2.0                          | 77.5                | 2.89        | 77.1   | 1.320 ± 0.110  | < 0.001 * |
| Trend p-Value                |                     |             |        | < 0.001 *      |           |
| 2.5 ng/mL VIN <sup>2</sup>   | 92.8                | 3.35        | 95.6   | 2.100 ± 0.497  | 0.0402    |
| 5.0 ng/mL VIN <sup>3</sup>   | 53.2                | 5.08        | 20.2   | 5.862 ± 0.927  | 0.0100 *  |
| 10 ng/mL VIN <sup>4</sup>    | 37.1                | 8.05        | 12.4   | 14.032 ± 1.568 | 0.0037 *  |

Trial Summary: Positive

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CAS Number: 10025-82-8

Date Report Requested: 11/20/2018  
Time Report Requested: 09:06:49

Duration: 24 h; Activation: Without S9

| Dose (mM)                    | % Relative Survival | % Apoptosis | % RICC | % MN          | p-Value  |
|------------------------------|---------------------|-------------|--------|---------------|----------|
|                              | Mean                | Mean        | Mean   | Mean ± SEM    |          |
| Vehicle Control <sup>1</sup> |                     | 1.51        |        | 0.582 ± 0.073 |          |
| 0.3                          | 87.5                | 1.74        | 69.7   | 0.963 ± 0.165 | 0.0336   |
| 0.5                          | 77.0                | 1.74        | 71.5   | 1.035 ± 0.019 | 0.0207 * |
| 1.0                          | 81.6                | 1.89        | 63.1   | 1.307 ± 0.214 | 0.0055 * |
| 2.0                          | 67.5                | 3.69        | 45.6   | 1.040 ± 0.095 | 0.0063 * |
| Trend p-Value                |                     |             |        | 0.0555        |          |
| VIN <sup>5</sup>             | 37.0                | 2.87        | 40.4   | 4.872 ± 0.294 | 0.0248 * |

Trial Summary: Positive

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**Micronucleus**

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Test Compound: **Indium (III) Chloride**  
CAS Number: **10025-82-8**

Date Report Requested: **11/20/2018**  
Time Report Requested: **09:06:49**

**Duration: 4 h; Activation: With 1% Rat S9**

| Dose (mM)                    | % Relative Survival | % Apoptosis | % RICC | % MN          |           |
|------------------------------|---------------------|-------------|--------|---------------|-----------|
|                              | Mean                | Mean        | Mean   | Mean ± SEM    | p-Value   |
| Vehicle Control <sup>1</sup> |                     | 1.67        |        | 0.505 ± 0.012 |           |
| 0.125                        | 86.3                | 2.0         | 99.2   | 0.528 ± 0.065 | 0.4044    |
| 0.25                         | 100.5               | 2.01        | 130.4  | 0.643 ± 0.035 | 0.0967    |
| 0.5                          | 72.8                | 2.35        | 68.0   | 0.953 ± 0.111 | < 0.001 * |
| 1.0                          | 59.5                | 3.24        | 62.2   | 1.030 ± 0.086 | 0.0011 *  |
| 2.0                          | 70.8                | 5.83        | 84.6   | 0.648 ± 0.026 | < 0.001 * |
| Trend p-Value                |                     |             |        | 0.1386        |           |
| CPA <sup>6</sup>             | 54.7                | 4.41        | 46.9   | 2.605 ± 0.231 | < 0.001 * |

Trial Summary: Equivocal

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LEGEND

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MN = Micronucleated, RICC = Relative increase in cell count, CAS = Chemical abstract registry

For the 4 h chemical exposures with and without S9, the medium with test article (and S9, if present) is changed after 4 h and replaced with fresh medium without test article or S9, and cells are cultured for an additional 20 h to achieve a total culture time of 24 h

Values given as Mean or Mean  $\pm$  Standard Error Mean

Statistical analysis only performed on: % MN

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

The number of samples = 3, unless otherwise indicated

1: Vehicle Control: Distilled Water

2: Positive Control: 2.5 ng/mL Vinblastine sulfate

3: Positive Control: 5.0 ng/mL Vinblastine sulfate

4: Positive Control: 10 ng/mL Vinblastine sulfate

5: Positive Control: 0.75 ng/mL Vinblastine sulfate

6: Positive Control: 3 ug/ml Cyclophosphamide monohydrate

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