

Experiment Number: 392737

Test Type: **Genetic Toxicology - Bacterial  
Mutagenicity**

**G06: Ames Summary Data**

Test Compound: **Bromochloromethane**

CAS Number: **74-97-5**

Date Report Requested: **09/14/2018**

Time Report Requested: **10:37:37**

**NTP Study Number:**

392737

**Study Result:**

Positive

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**Strain: TA100**

| <b>Dose (ug/Plate)</b>        | <b>Without S9</b>      | <b>Without S9</b>     | <b>With 30% Rat S9</b> | <b>With 30% Rat S9</b>  | <b>With 30% Hamster S9</b> |
|-------------------------------|------------------------|-----------------------|------------------------|-------------------------|----------------------------|
| Vehicle Control <sup>1</sup>  | 102 ± 5.5              | 88 ± 9.1              | 124 ± 5.5              | 131 ± 0.9               | 122 ± 1.8                  |
| 100.0                         | 323 ± 15.4             | 257 ± 5.8             | 312 ± 8.0              | 224 ± 13.5              | 284 ± 3.0                  |
| 333.0                         | 856 ± 5.0              | 461 ± 11.9            | 568 ± 14.6             | 405 ± 19.4              | 546 ± 11.7                 |
| 1000.0                        | 1601 ± 41.1            | 1138 ± 29.3           | 1029 ± 35.2            | 899 ± 25.3              | 1123 ± 45.0                |
| 3333.0                        | 1431 ± 72.8            | 1258 ± 11.1           | 947 ± 32.8             | 840 ± 18.6              | 944 ± 68.3                 |
| 6666.0                        | 91 ± 17.3 <sup>s</sup> | 72 ± 2.0 <sup>s</sup> | 169 ± 4.5 <sup>s</sup> | 122 ± 14.1 <sup>s</sup> | 228 ± 33.9 <sup>s</sup>    |
| Trial Summary                 | Positive               | Positive              | Positive               | Positive                | Positive                   |
| Positive Control <sup>2</sup> | 460 ± 20.7             | 392 ± 48.7            |                        |                         |                            |
| Positive Control <sup>3</sup> |                        |                       |                        |                         | 469 ± 8.1                  |
| Positive Control <sup>4</sup> |                        |                       | 913 ± 57.9             | 949 ± 23.6              |                            |

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**Strain: TA100**

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| <b>Dose (ug/Plate)</b>        | <b>With 30% Hamster S9</b> |
|-------------------------------|----------------------------|
| Vehicle Control <sup>1</sup>  | 101 ± 5.5                  |
| 100.0                         | 303 ± 19.7                 |
| 333.0                         | 755 ± 49.2                 |
| 1000.0                        | 1579 ± 18.9                |
| 3333.0                        | 1525 ± 25.4                |
| 6666.0                        | 250 ± 32.3 <sup>s</sup>    |
| Trial Summary                 | Positive                   |
| Positive Control <sup>2</sup> |                            |
| Positive Control <sup>3</sup> | 515 ± 22.9                 |
| Positive Control <sup>4</sup> |                            |

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**Strain: TA98**

| <b>Dose (ug/Plate)</b>        | <b>Without S9</b>      | <b>Without S9</b>      | <b>With 30% Rat S9</b>  | <b>With 30% Rat S9</b> | <b>With 30% Hamster S9</b> |
|-------------------------------|------------------------|------------------------|-------------------------|------------------------|----------------------------|
| Vehicle Control <sup>1</sup>  | 23 ± 3.8               | 17 ± 1.5               | 23 ± 2.0                | 35 ± 2.7               | 30 ± 3.8                   |
| 100.0                         | 666 ± 22.0             | 460 ± 6.7              | 267 ± 13.0              | 291 ± 4.9              | 227 ± 15.6                 |
| 333.0                         | 1428 ± 61.4            | 1071 ± 51.9            | 833 ± 20.4              | 756 ± 26.0             | 702 ± 28.5                 |
| 1000.0                        | 1989 ± 30.5            | 1499 ± 28.0            | 1393 ± 19.4             | 1208 ± 12.4            | 1278 ± 40.7                |
| 3333.0                        | 1717 ± 74.9            | 1409 ± 35.8            | 1071 ± 43.6             | 983 ± 33.2             | 1121 ± 26.2                |
| 6666.0                        | 77 ± 23.6 <sup>s</sup> | 55 ± 24.5 <sup>s</sup> | 131 ± 24.0 <sup>s</sup> | 132 ± 9.1 <sup>s</sup> | 198 ± 29.4 <sup>s</sup>    |
| Trial Summary                 | Positive               | Positive               | Positive                | Positive               | Positive                   |
| Positive Control <sup>5</sup> |                        |                        |                         |                        | 78 ± 3.2                   |
| Positive Control <sup>6</sup> | 154 ± 14.4             | 154 ± 6.2              |                         |                        |                            |
| Positive Control <sup>3</sup> |                        |                        | 221 ± 19.7              | 289 ± 15.8             |                            |

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**Strain: TA98**

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| <b>Dose (ug/Plate)</b>        | <b>With 30% Hamster S9</b> |
|-------------------------------|----------------------------|
| Vehicle Control <sup>1</sup>  | 34 ± 1.2                   |
| 100.0                         | 430 ± 37.5                 |
| 333.0                         | 1324 ± 43.4                |
| 1000.0                        | 1946 ± 38.1                |
| 3333.0                        | 1443 ± 52.1                |
| 6666.0                        | 243 ± 11.2 <sup>s</sup>    |
| Trial Summary                 | Positive                   |
| Positive Control <sup>5</sup> | 94 ± 3.3                   |
| Positive Control <sup>6</sup> |                            |
| Positive Control <sup>3</sup> |                            |

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**LEGEND**

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

The number of samples = 3, unless samples marked toxic or contaminated were excluded from mean and SEM calculations

CAS Number = Chemical Abstracts Service registry number

1: Vehicle Control: Dimethyl Sulfoxide

2: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 0.4 ug/Plate 2-Aminoanthracene

6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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