

Experiment Number: 535038

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

**G06: Ames Summary Data**

Test Compound: **beta-Bromo-beta-nitrostyrene**

CAS Number: 7166-19-0

Date Report Requested: **09/13/2018**

Time Report Requested: **00:11:04**

**NTP Study Number:**

535038

**Study Result:**

Positive

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CAS Number: 7166-19-0

Date Report Requested: 09/13/2018

Time Report Requested: 00:11:04

## Strain: TA100

| Dose (ug/Plate)               | Without S9 | Without S9 | With 30% Rat S9      | With 30% Rat S9 | With 30% Hamster S9  |
|-------------------------------|------------|------------|----------------------|-----------------|----------------------|
| Vehicle Control <sup>1</sup>  | 115 ± 7.9  | 169 ± 3.1  | 140 ± 5.7            | 163 ± 8.5       | 131 ± 3.8            |
| 0.03                          | 122 ± 7.1  |            |                      |                 |                      |
| 0.1                           | 120 ± 3.7  |            |                      |                 |                      |
| 0.3                           | 138 ± 9.9  | 219 ± 8.8  |                      |                 |                      |
| 0.6                           |            | 292 ± 7.2  |                      |                 |                      |
| 1.0                           | 290 ± 4.1  | 347 ± 16.5 |                      |                 |                      |
| 1.6                           |            | 395 ± 2.3  |                      |                 |                      |
| 3.0                           | 552 ± 22.9 | 554 ± 29.8 |                      |                 |                      |
| 10.0                          |            |            | 155 ± 16.5           | 171 ± 6.7       | 141 ± 7.2            |
| 33.0                          |            |            | 184 ± 3.8            | 199 ± 10.3      | 149 ± 9.4            |
| 66.0                          |            |            |                      | 237 ± 5.0       |                      |
| 100.0                         |            |            | 272 ± 29.1           | 293 ± 8.1       | 270 ± 11.2           |
| 333.0                         |            |            | 345 ± 28.6           | 447 ± 18.5      | 417 ± 55.8           |
| 666.0                         |            |            | 0 ± 0.0 <sup>s</sup> |                 | 0 ± 0.0 <sup>s</sup> |
| Trial Summary                 | Positive   | Positive   | Positive             | Positive        | Positive             |
| Positive Control <sup>2</sup> |            |            |                      |                 | 608 ± 15.7           |
| Positive Control <sup>3</sup> | 366 ± 12.7 | 497 ± 34.6 |                      |                 |                      |
| Positive Control <sup>4</sup> |            |            | 499 ± 9.4            | 380 ± 11.0      |                      |

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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>  | 152 ± 7.8                  |
| 0.03                          |                            |
| 0.1                           |                            |
| 0.3                           |                            |
| 0.6                           |                            |
| 1.0                           |                            |
| 1.6                           |                            |
| 3.0                           |                            |
| 10.0                          | 184 ± 6.8                  |
| 33.0                          | 217 ± 8.6                  |
| 66.0                          | 271 ± 13.6                 |
| 100.0                         | 272 ± 14.6                 |
| 333.0                         | 398 ± 7.1                  |
| 666.0                         |                            |
| Trial Summary                 | Positive                   |
| Positive Control <sup>2</sup> | 627 ± 6.9                  |
| Positive Control <sup>3</sup> |                            |
| Positive Control <sup>4</sup> |                            |

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## Strain: TA98

| Dose (ug/Plate)               | Without S9 | Without S9           | With 5% Rat S9       | With 5% Rat S9 | With 10% Rat S9 |
|-------------------------------|------------|----------------------|----------------------|----------------|-----------------|
| Vehicle Control <sup>1</sup>  | 25 ± 2.5   | 17 ± 1.3             | 36 ± 0.6             | 34 ± 6.4       | 34 ± 2.3        |
| 0.03                          | 22 ± 2.4   |                      |                      |                |                 |
| 0.1                           | 19 ± 2.6   |                      |                      |                |                 |
| 0.3                           | 16 ± 1.5   | 15 ± 1.8             |                      |                |                 |
| 1.0                           | 45 ± 3.7   | 33 ± 3.0             |                      |                |                 |
| 1.6                           |            | 39 ± 0.9             |                      |                |                 |
| 3.0                           | 88 ± 4.9   | 49 ± 2.8             | 29 ± 1.3             | 27 ± 0.9       | 30 ± 1.8        |
| 6.0                           |            | 0 ± 0.0 <sup>s</sup> |                      |                |                 |
| 10.0                          |            |                      | 40 ± 8.7             | 31 ± 3.8       | 39 ± 3.2        |
| 16.0                          |            |                      |                      | 33 ± 3.5       |                 |
| 33.0                          |            |                      | 62 ± 3.8             | 46 ± 9.1       | 44 ± 2.0        |
| 66.0                          |            |                      |                      | 48 ± 3.2       |                 |
| 100.0                         |            |                      | 0 ± 0.0 <sup>s</sup> |                | 47 ± 2.1        |
| 166.0                         |            |                      |                      |                |                 |
| 333.0                         |            |                      | Toxic                |                | Toxic           |
| 666.0                         |            |                      |                      |                |                 |
| Trial Summary                 | Positive   | Positive             | Equivocal            | Negative       | Negative        |
| Positive Control <sup>5</sup> |            |                      |                      |                |                 |
| Positive Control <sup>2</sup> |            |                      | 590 ± 39.8           | 469 ± 34.8     | 314 ± 3.8       |
| Positive Control <sup>6</sup> | 684 ± 18.2 |                      |                      |                |                 |
| Positive Control <sup>7</sup> |            | 941 ± 40.5           |                      |                |                 |

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## Strain: TA98

| Dose (ug/Plate)               | With 30% Rat S9 | With 30% Rat S9 | With 5% Hamster S9 | With 10% Hamster S9 | With 10% Hamster S9 |
|-------------------------------|-----------------|-----------------|--------------------|---------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 42 ± 2.5        | 45 ± 2.4        | 38 ± 1.8           | 30 ± 2.7            | 33 ± 3.5            |
| 0.03                          |                 |                 |                    |                     |                     |
| 0.1                           |                 |                 |                    |                     |                     |
| 0.3                           |                 |                 |                    |                     |                     |
| 1.0                           |                 |                 |                    |                     |                     |
| 1.6                           |                 |                 |                    |                     |                     |
| 3.0                           |                 | 41 ± 2.4        | 31 ± 0.9           | 35 ± 1.7            |                     |
| 6.0                           |                 |                 |                    |                     |                     |
| 10.0                          | 51 ± 1.5        | 33 ± 1.7        | 39 ± 1.8           | 35 ± 3.1            | 32 ± 0.9            |
| 16.0                          |                 |                 |                    |                     | 32 ± 2.0            |
| 33.0                          | 59 ± 3.5        | 36 ± 4.4        | 54 ± 0.3           | 67 ± 6.1            | 33 ± 0.3            |
| 66.0                          |                 |                 |                    |                     |                     |
| 100.0                         | 61 ± 2.3        | 41 ± 1.2        | Toxic              | 70 ± 10.3           | 40 ± 0.7            |
| 166.0                         |                 |                 |                    |                     | 36 ± 8.9            |
| 333.0                         | 36 ± 1.8        | 32 ± 2.1        | Toxic              | Toxic               |                     |
| 666.0                         | Toxic           |                 |                    |                     |                     |
| Trial Summary                 | Negative        | Negative        | Equivocal          | Positive            | Negative            |
| Positive Control <sup>5</sup> |                 |                 | 1077 ± 72.1        | 666 ± 33.2          | 618 ± 42.1          |
| Positive Control <sup>2</sup> | 129 ± 13.1      | 97 ± 9.0        |                    |                     |                     |
| Positive Control <sup>6</sup> |                 |                 |                    |                     |                     |
| Positive Control <sup>7</sup> |                 |                 |                    |                     |                     |

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**Strain: TA98**

| Dose (ug/Plate)               | With 30% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|---------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 32 ± 4.7            | 29 ± 3.8            |
| 0.03                          |                     |                     |
| 0.1                           |                     |                     |
| 0.3                           |                     |                     |
| 1.0                           |                     |                     |
| 1.6                           |                     |                     |
| 3.0                           |                     | 32 ± 5.3            |
| 6.0                           |                     |                     |
| 10.0                          | 35 ± 2.2            | 22 ± 2.4            |
| 16.0                          |                     |                     |
| 33.0                          | 32 ± 4.1            | 30 ± 3.4            |
| 66.0                          |                     |                     |
| 100.0                         | 40 ± 4.7            | 45 ± 6.8            |
| 166.0                         |                     |                     |
| 333.0                         | 49 ± 5.4            | 60 ± 6.9            |
| 666.0                         | Toxic               |                     |
| Trial Summary                 | Negative            | Weakly Positive     |
| Positive Control <sup>5</sup> |                     |                     |
| Positive Control <sup>2</sup> | 429 ± 38.7          | 460 ± 13.5          |
| Positive Control <sup>6</sup> |                     |                     |
| Positive Control <sup>7</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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 0.5 ug/Plate 2-Aminoanthracene

6: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

7: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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