

Experiment Number: 085297

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2,3-Butanedione 2-oxime

CAS Number: 57-71-6

Date Report Requested: 09/11/2018

Time Report Requested: 06:22:04

**NTP Study Number:**

085297

**Study Result:**

Negative

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Date Report Requested: 09/11/2018

Time Report Requested: 06:22:04

## Strain: TA100

| Dose (ug/Plate)               | Without S9  | Without S9   | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------|--------------|-----------------|-----------------|---------------------|
| Vehicle Control <sup>1</sup>  | 90 ± 5.0    | 132 ± 7.8    | 124 ± 5.5       | 154 ± 22.3      | 125 ± 2.9           |
| 100.0                         | 86 ± 6.7    | 110 ± 2.4    | 113 ± 5.5       | 166 ± 3.8       | 117 ± 9.0           |
| 333.0                         | 94 ± 2.6    | 121 ± 6.1    | 117 ± 2.6       | 183 ± 20.3      | 115 ± 12.8          |
| 1000.0                        | 85 ± 4.9    | 112 ± 2.3    | 117 ± 6.1       | 155 ± 15.8      | 121 ± 7.3           |
| 3333.0                        | 86 ± 0.9    | 116 ± 6.8    | 118 ± 3.2       | 149 ± 6.7       | 119 ± 12.7          |
| 10000.0                       | 72 ± 0.6    | 103 ± 1.5    | 99 ± 9.0        | 134 ± 4.9       | 93 ± 13.9           |
| Trial Summary                 | Negative    | Negative     | Negative        | Negative        | Negative            |
| Positive Control <sup>2</sup> |             |              | 2460 ± 86.0     | 2754 ± 126.3    | 1626 ± 36.5         |
| Positive Control <sup>3</sup> | 1474 ± 52.6 | 1617 ± 150.1 |                 |                 |                     |

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**Strain: TA100**

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| <b>Dose (ug/Plate)</b>        | <b>With 10% Hamster S9</b> |
|-------------------------------|----------------------------|
| Vehicle Control <sup>1</sup>  | 149 ± 11.5                 |
| 100.0                         | 157 ± 7.6                  |
| 333.0                         | 166 ± 6.2                  |
| 1000.0                        | 174 ± 9.4                  |
| 3333.0                        | 142 ± 6.2                  |
| 10000.0                       | 138 ± 21.1                 |
| Trial Summary                 | Negative                   |
| Positive Control <sup>2</sup> | 1180 ± 105.7               |
| Positive Control <sup>3</sup> |                            |

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## Strain: TA1535

| Dose (ug/Plate)               | Without S9  | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control <sup>1</sup>  | 17 ± 2.3    | 17 ± 0.7   | 15 ± 2.9        | 14 ± 2.7        | 14 ± 1.0            |
| 100.0                         | 22 ± 3.6    | 13 ± 3.0   | 14 ± 0.3        | 19 ± 1.0        | 13 ± 2.9            |
| 333.0                         | 17 ± 1.8    | 15 ± 2.7   | 13 ± 2.9        | 17 ± 2.2        | 13 ± 2.6            |
| 1000.0                        | 15 ± 1.9    | 16 ± 0.6   | 11 ± 1.0        | 15 ± 0.3        | 12 ± 2.7            |
| 3333.0                        | 12 ± 0.6    | 12 ± 1.9   | 13 ± 2.2        | 18 ± 3.2        | 14 ± 2.7            |
| 10000.0                       | 9 ± 0.7     | 7 ± 3.6    | 12 ± 0.3        | 13 ± 1.5        | 9 ± 0.6             |
| Trial Summary                 | Negative    | Negative   | Negative        | Negative        | Negative            |
| Positive Control <sup>4</sup> |             |            | 357 ± 16.5      | 376 ± 1.5       | 569 ± 5.2           |
| Positive Control <sup>3</sup> | 1215 ± 91.4 | 1102 ± 6.2 |                 |                 |                     |

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Date Report Requested: 09/11/2018  
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**Strain: TA1535**

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| <b>Dose (ug/Plate)</b>        | <b>With 10% Hamster S9</b> |
|-------------------------------|----------------------------|
| Vehicle Control <sup>1</sup>  | 21 ± 2.0                   |
| 100.0                         | 16 ± 0.3                   |
| 333.0                         | 11 ± 2.1                   |
| 1000.0                        | 11 ± 1.3                   |
| 3333.0                        | 16 ± 2.4                   |
| 10000.0                       | 8 ± 0.6                    |
| Trial Summary                 | Negative                   |
| Positive Control <sup>4</sup> | 382 ± 33.5                 |
| Positive Control <sup>3</sup> |                            |

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**Strain: TA1537**

| <b>Dose (ug/Plate)</b>        | <b>Without S9</b> | <b>Without S9</b> | <b>With 10% Rat S9</b> | <b>With 10% Rat S9</b> | <b>With 10% Hamster S9</b> |
|-------------------------------|-------------------|-------------------|------------------------|------------------------|----------------------------|
| Vehicle Control <sup>1</sup>  | 8 ± 1.5           | 11 ± 2.2          | 16 ± 1.5               | 10 ± 3.3               | 16 ± 0.3                   |
| 100.0                         | 5 ± 1.2           | 10 ± 2.0          | 16 ± 3.3               | 9 ± 3.2                | 15 ± 2.0                   |
| 333.0                         | 7 ± 0.3           | 6 ± 0.7           | 15 ± 1.2               | 10 ± 3.3               | 10 ± 0.6                   |
| 1000.0                        | 9 ± 2.2           | 10 ± 2.3          | 15 ± 0.6               | 13 ± 2.9               | 13 ± 2.1                   |
| 3333.0                        | 7 ± 1.9           | 7 ± 0.3           | 17 ± 1.3               | 6 ± 1.2                | 13 ± 2.1                   |
| 10000.0                       | 7 ± 0.7           | 5 ± 0.6           | 14 ± 4.5               | 4 ± 1.5                | 7 ± 2.0                    |
| Trial Summary                 | Negative          | Negative          | Negative               | Negative               | Negative                   |
| Positive Control <sup>4</sup> |                   |                   | 365 ± 11.9             | 83 ± 4.6               | 406 ± 16.2                 |
| Positive Control <sup>5</sup> | 347 ± 92.5        | 709 ± 54.2        |                        |                        |                            |

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**Strain: TA1537**

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| <b>Dose (ug/Plate)</b>        | <b>With 10% Hamster S9</b> |
|-------------------------------|----------------------------|
| Vehicle Control <sup>1</sup>  | 18 ± 0.6                   |
| 100.0                         | 5 ± 0.3                    |
| 333.0                         | 16 ± 1.8                   |
| 1000.0                        | 15 ± 0.3                   |
| 3333.0                        | 15 ± 2.3                   |
| 10000.0                       | 13 ± 1.7                   |
| Trial Summary                 | Negative                   |
| Positive Control <sup>4</sup> | 155 ± 11.3                 |
| Positive Control <sup>5</sup> |                            |

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## Strain: TA98

| Dose (ug/Plate)               | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control <sup>1</sup>  | 24 ± 3.4   | 22 ± 2.6   | 31 ± 2.6        | 36 ± 0.9        | 23 ± 2.1            |
| 100.0                         | 30 ± 3.1   | 18 ± 1.2   | 28 ± 2.8        | 22 ± 4.9        | 33 ± 2.2            |
| 333.0                         | 26 ± 1.5   | 25 ± 1.2   | 31 ± 5.3        | 31 ± 3.0        | 30 ± 2.2            |
| 1000.0                        | 26 ± 1.2   | 21 ± 1.9   | 31 ± 2.7        | 31 ± 4.5        | 24 ± 4.5            |
| 3333.0                        | 27 ± 2.3   | 21 ± 2.0   | 28 ± 1.7        | 27 ± 4.1        | 21 ± 3.2            |
| 10000.0                       | Toxic      | 18 ± 0.9   | 22 ± 4.1        | 24 ± 3.3        | 13 ± 0.9            |
| Trial Summary                 | Negative   | Negative   | Negative        | Negative        | Negative            |
| Positive Control <sup>2</sup> |            |            | 1900 ± 131.4    | 1725 ± 90.4     | 1516 ± 57.5         |
| Positive Control <sup>6</sup> | 426 ± 3.8  | 206 ± 3.5  |                 |                 |                     |



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**Strain: TA98**

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| <b>Dose (ug/Plate)</b>        | <b>With 10% Hamster S9</b> |
|-------------------------------|----------------------------|
| Vehicle Control <sup>1</sup>  | 25 ± 3.3                   |
| 100.0                         | 21 ± 1.2                   |
| 333.0                         | 23 ± 6.0                   |
| 1000.0                        | 34 ± 1.8                   |
| 3333.0                        | 23 ± 1.7                   |
| 10000.0                       | 23 ± 0.6                   |
| Trial Summary                 | Negative                   |
| Positive Control <sup>2</sup> | 909 ± 166.9                |
| Positive Control <sup>6</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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

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