

Experiment Number: 584997

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

**G06: Ames Summary Data**

Test Compound: **Glycerol**

CAS Number: **56-81-5**

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

Time Report Requested: **12:16:02**

**NTP Study Number:**

584997

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Glycerol

CAS Number: 56-81-5

Date Report Requested: 09/14/2018

Time Report Requested: 12:16:02

## 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>  | 122 ± 12.7 | 79 ± 6.4   | 135 ± 3.8       | 114 ± 4.2       | 130 ± 3.5           |
| 100.0                         | 101 ± 7.1  | 102 ± 7.0  | 111 ± 19.7      | 108 ± 5.8       | 133 ± 16.7          |
| 333.3                         | 104 ± 3.8  | 105 ± 12.4 | 101 ± 10.1      | 109 ± 6.9       | 114 ± 9.0           |
| 1000.0                        | 108 ± 3.8  | 100 ± 10.1 | 111 ± 13.9      | 112 ± 8.7       | 111 ± 5.9           |
| 3333.3                        | 111 ± 1.8  | 94 ± 4.0   | 124 ± 4.2       | 108 ± 13.8      | 124 ± 5.9           |
| 10000.0                       | 100 ± 2.5  | 117 ± 12.8 | 95 ± 10.4       | 108 ± 2.7       | 120 ± 23.0          |
| Trial Summary                 | Negative   | Equivocal  | Negative        | Negative        | Negative            |
| Positive Control <sup>2</sup> | 521 ± 13.7 | 404 ± 11.8 |                 |                 |                     |
| Positive Control <sup>3</sup> |            |            | 997 ± 34.8      | 305 ± 7.0       | 2304 ± 86.7         |

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Strain: TA100

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| Dose (ug/Plate)               | With 10% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control <sup>1</sup>  | 154 ± 13.1          |
| 100.0                         | 131 ± 2.7           |
| 333.3                         | 113 ± 0.9           |
| 1000.0                        | 100 ± 6.0           |
| 3333.3                        | 118 ± 5.7           |
| 10000.0                       | 134 ± 4.7           |
| Trial Summary                 | Negative            |
| Positive Control <sup>2</sup> |                     |
| Positive Control <sup>3</sup> | 908 ± 11.0          |

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## G06: Ames Summary Data

Test Compound: Glycerol

CAS Number: 56-81-5

Date Report Requested: 09/14/2018

Time Report Requested: 12:16:02

## 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>  | 15 ± 1.9   | 15 ± 0.3   | 12 ± 1.5        | 13 ± 3.1        | 11 ± 3.5            |
| 100.0                         | 16 ± 2.3   | 17 ± 5.8   | 14 ± 0.9        | 16 ± 1.2        | 10 ± 1.3            |
| 333.3                         | 13 ± 2.5   | 15 ± 3.0   | 9 ± 1.8         | 12 ± 0.3        | 7 ± 1.2             |
| 1000.0                        | 17 ± 1.8   | 18 ± 3.7   | 9 ± 1.5         | 13 ± 2.6        | 10 ± 2.8            |
| 3333.3                        | 14 ± 1.2   | 18 ± 4.8   | 14 ± 0.9        | 11 ± 2.3        | 10 ± 1.2            |
| 10000.0                       | 15 ± 3.0   | 14 ± 2.5   | 11 ± 2.5        | 14 ± 0.9        | 9 ± 2.0             |
| Trial Summary                 | Negative   | Negative   | Negative        | Negative        | Negative            |
| Positive Control <sup>2</sup> | 394 ± 18.9 | 312 ± 4.4  |                 |                 |                     |
| Positive Control <sup>4</sup> |            |            | 246 ± 8.5       | 228 ± 3.8       | 246 ± 7.2           |

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

**G06: Ames Summary Data**

Test Compound: **Glycerol**

CAS Number: **56-81-5**

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

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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>  | 11 ± 0.9                   |
| 100.0                         | 13 ± 2.1                   |
| 333.3                         | 8 ± 0.0                    |
| 1000.0                        | 12 ± 2.2                   |
| 3333.3                        | 10 ± 1.2                   |
| 10000.0                       | 14 ± 1.5                   |
| Trial Summary                 | Negative                   |
| Positive Control <sup>2</sup> |                            |
| Positive Control <sup>4</sup> | 360 ± 4.5                  |

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**G06: Ames Summary Data**

Date Report Requested: 09/14/2018

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

Time Report Requested: 12:16:02

**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>  | 5 ± 1.7           | 6 ± 0.3           | 6 ± 1.2                | 10 ± 1.2               | 8 ± 1.3                    |
| 100.0                         | 9 ± 2.4           | 5 ± 1.7           | 8 ± 2.3                | 6 ± 0.7                | 6 ± 0.6                    |
| 333.3                         | 6 ± 0.9           | 8 ± 2.6           | 8 ± 2.4                | 8 ± 0.3                | 6 ± 0.3                    |
| 1000.0                        | 7 ± 0.9           | 7 ± 1.5           | 7 ± 1.5                | 8 ± 2.3                | 5 ± 0.0                    |
| 3333.3                        | 6 ± 0.7           | 6 ± 0.3           | 6 ± 0.0                | 9 ± 1.7                | 5 ± 1.2                    |
| 10000.0                       | 6 ± 2.2           | 6 ± 0.3           | 6 ± 0.0                | 6 ± 0.9                | 8 ± 1.9                    |
| Trial Summary                 | Negative          | Negative          | Negative               | Negative               | Negative                   |
| Positive Control <sup>4</sup> |                   |                   | 239 ± 24.6             | 154 ± 5.1              | 411 ± 10.3                 |
| Positive Control <sup>5</sup> | 847 ± 54.3        | 152 ± 13.7        |                        |                        |                            |

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**G06: Ames Summary Data**

Test Compound: **Glycerol**

CAS Number: **56-81-5**

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

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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>  | 12 ± 1.5                   |
| 100.0                         | 9 ± 2.6                    |
| 333.3                         | 11 ± 4.2                   |
| 1000.0                        | 15 ± 0.6                   |
| 3333.3                        | 12 ± 2.1                   |
| 10000.0                       | 12 ± 4.7                   |
| Trial Summary                 | Negative                   |
| Positive Control <sup>4</sup> | 397 ± 12.0                 |
| Positive Control <sup>5</sup> |                            |

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Test Compound: Glycerol

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Date Report Requested: 09/14/2018

Time Report Requested: 12:16:02

## 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>  | 18 ± 0.6   | 17 ± 2.6   | 18 ± 2.3        | 22 ± 2.1        | 23 ± 1.8            |
| 100.0                         | 16 ± 0.9   | 19 ± 0.9   | 19 ± 1.2        | 23 ± 2.3        | 22 ± 1.5            |
| 333.3                         | 19 ± 3.5   | 18 ± 3.0   | 17 ± 2.3        | 25 ± 3.5        | 22 ± 3.3            |
| 1000.0                        | 15 ± 3.2   | 14 ± 0.9   | 21 ± 1.8        | 24 ± 1.7        | 16 ± 1.5            |
| 3333.3                        | 12 ± 2.7   | 17 ± 2.6   | 18 ± 4.7        | 27 ± 3.2        | 17 ± 1.3            |
| 10000.0                       | 13 ± 2.5   | 18 ± 3.2   | 18 ± 0.6        | 27 ± 1.9        | 19 ± 2.6            |
| Trial Summary                 | Negative   | Negative   | Negative        | Negative        | Negative            |
| Positive Control <sup>3</sup> |            |            | 249 ± 26.4      | 115 ± 8.2       | 823 ± 92.0          |
| Positive Control <sup>6</sup> | 714 ± 5.7  | 675 ± 61.2 |                 |                 |                     |



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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>  | 32 ± 7.0                   |
| 100.0                         | 21 ± 3.8                   |
| 333.3                         | 29 ± 5.9                   |
| 1000.0                        | 28 ± 1.5                   |
| 3333.3                        | 29 ± 0.9                   |
| 10000.0                       | 35 ± 2.0                   |
| Trial Summary                 | Negative                   |
| Positive Control <sup>3</sup> | 426 ± 10.5                 |
| 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: Dimethyl Sulfoxide

2: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

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