

Experiment Number: **149350**
Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

G06: Ames Summary Data
Test Compound: **Glyphosate**
CAS Number: **1071-83-6**

Date Report Requested: **09/12/2018**
Time Report Requested: **14:39:14**

NTP Study Number: 149350
Study Result: Negative

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Mutagenicity

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Test Compound: Glyphosate
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Date Report Requested: 09/12/2018
Time Report Requested: 14:39:14

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|------------------------|---------------------|
| Vehicle Control ¹ | 127 ± 7.3 | 111 ± 1.5 | 147 ± 16.1 | 169 ± 4.1 | 162 ± 7.9 |
| 33.0 | 120 ± 14.8 | 97 ± 5.5 | 158 ± 2.3 | | 176 ± 6.6 |
| 100.0 | 124 ± 9.9 | 134 ± 6.0 | 148 ± 10.2 | 154 ± 9.0 | 151 ± 8.1 |
| 333.0 | 107 ± 10.5 | 122 ± 11.3 | 142 ± 3.5 | 136 ± 4.3 | 133 ± 3.7 |
| 1000.0 | 133 ± 3.8 | 109 ± 9.3 | 137 ± 3.0 | 133 ± 8.5 | 106 ± 2.3 |
| 3333.0 | 99 ± 3.8 | 103 ± 11.4 | 150 ± 14.0 | 131 ± 11.1 | 101 ± 6.8 |
| 10000.0 | | | | 52 ± 38.5 ^s | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 419 ± 13.7 | | 514 ± 22.9 |
| Positive Control ³ | 422 ± 14.1 | 433 ± 6.7 | | | |
| Positive Control ⁴ | | | | 490 ± 16.5 | |

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Strain: TA100

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|-----------------------|
| Vehicle Control ¹ | 148 ± 8.7 |
| 33.0 | |
| 100.0 | 156 ± 7.5 |
| 333.0 | 142 ± 3.3 |
| 1000.0 | 117 ± 15.6 |
| 3333.0 | 131 ± 1.9 |
| 10000.0 | 18 ± 6.6 ^s |
| Trial Summary | Negative |
| Positive Control ² | 590 ± 15.9 |
| Positive Control ³ | |
| Positive Control ⁴ | |

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Date Report Requested: 09/12/2018
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Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 20 ± 2.2 | 21 ± 3.1 | 18 ± 4.6 | 13 ± 1.7 | 14 ± 0.7 |
| 33.0 | 18 ± 1.2 | 13 ± 2.2 | 11 ± 2.2 | 12 ± 0.9 | 15 ± 3.4 |
| 100.0 | 15 ± 1.7 | 17 ± 2.0 | 14 ± 0.9 | 13 ± 3.0 | 12 ± 1.0 |
| 333.0 | 11 ± 0.9 | 17 ± 4.0 | 11 ± 1.2 | 10 ± 1.5 | 10 ± 3.6 |
| 1000.0 | 11 ± 0.3 | 15 ± 0.7 | 12 ± 2.5 | 11 ± 0.3 | 12 ± 1.2 |
| 3333.0 | 4 ± 0.9 | 9 ± 0.7 | 10 ± 0.6 | 9 ± 1.8 | 10 ± 1.2 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ³ | 269 ± 8.7 | 479 ± 32.9 | | | |
| Positive Control ² | | | | | 196 ± 12.5 |
| Positive Control ⁴ | | | 146 ± 12.2 | | |
| Positive Control ⁵ | | | | 89 ± 14.2 | |

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Strain: TA1535

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control ¹ | 17 ± 3.8 |
| 33.0 | 15 ± 1.2 |
| 100.0 | 13 ± 2.0 |
| 333.0 | 12 ± 0.3 |
| 1000.0 | 11 ± 1.3 |
| 3333.0 | 11 ± 1.0 |
| Trial Summary | Negative |
| Positive Control ³ | |
| Positive Control ² | |
| Positive Control ⁴ | 411 ± 12.3 |
| Positive Control ⁵ | |

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Date Report Requested: 09/12/2018
Time Report Requested: 14:39:14

Strain: TA97

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|----------------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 172 ± 7.2 | 171 ± 2.3 | 190 ± 7.8 | 205 ± 2.5 | 180 ± 16.8 |
| 10.0 | | 151 ± 14.4 | 179 ± 10.1 | | 177 ± 9.2 |
| 33.0 | 173 ± 6.0 | 178 ± 6.9 | 203 ± 12.5 | 212 ± 2.8 | 168 ± 18.3 |
| 100.0 | 174 ± 3.5 | 190 ± 5.2 | 154 ± 4.2 | 160 ± 20.0 | 159 ± 9.2 |
| 333.0 | 142 ± 16.9 | 136 ± 3.2 | 119 ± 8.7 | 186 ± 14.7 | 135 ± 9.8 |
| 1000.0 | 100 ± 6.8 | 93 ± 3.1 | 86 ± 1.5 | 174 ± 5.4 | 116 ± 8.7 |
| 3333.0 | 0 ± 0.0 ^s | | | 63 ± 19.5 | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 385 ± 18.6 | | 412 ± 27.3 |
| Positive Control ⁴ | | | | 283 ± 13.4 | |
| Positive Control ⁶ | 331 ± 13.6 | 501 ± 48.5 | | | |

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Strain: TA97

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control ¹ | 159 ± 8.3 |
| 10.0 | |
| 33.0 | 212 ± 3.8 |
| 100.0 | 159 ± 10.3 |
| 333.0 | 162 ± 6.3 |
| 1000.0 | 139 ± 16.4 |
| 3333.0 | 74 ± 15.9 |
| Trial Summary | Negative |
| Positive Control ² | 451 ± 5.0 |
| Positive Control ⁴ | |
| Positive Control ⁶ | |

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Date Report Requested: 09/12/2018
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Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|----------------------|---------------------|
| Vehicle Control ¹ | 23 ± 2.5 | 25 ± 0.9 | 27 ± 1.8 | 24 ± 3.7 | 40 ± 1.5 |
| 33.0 | 16 ± 0.9 | 17 ± 2.1 | 24 ± 2.1 | | 27 ± 2.1 |
| 100.0 | 15 ± 2.1 | 23 ± 3.2 | 25 ± 2.7 | 26 ± 1.5 | 34 ± 3.5 |
| 333.0 | 15 ± 2.0 | 14 ± 2.9 | 23 ± 2.7 | 27 ± 2.9 | 22 ± 1.5 |
| 1000.0 | 15 ± 1.2 | 15 ± 0.6 | 23 ± 2.7 | 20 ± 1.5 | 31 ± 2.9 |
| 3333.0 | 8 ± 2.3 | 15 ± 0.9 | Toxic | 13 ± 2.3 | 25 ± 0.3 |
| 10000.0 | | | | 0 ± 0.0 ^s | |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 275 ± 24.2 | 87 ± 12.4 | 346 ± 3.5 |
| Positive Control ⁷ | 667 ± 85.0 | 785 ± 24.7 | | | |

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Strain: TA98

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control ¹ | 32 ± 3.5 |
| 33.0 | |
| 100.0 | 25 ± 2.3 |
| 333.0 | 27 ± 1.7 |
| 1000.0 | 25 ± 3.1 |
| 3333.0 | 19 ± 2.2 |
| 10000.0 | 2 ± 0.3 |
| Trial Summary | Negative |
| Positive Control ² | 274 ± 32.1 |
| Positive Control ⁷ | |

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LEGEND

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: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **