

Experiment Number: 836489

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

G06: Ames Summary Data

Test Compound: **Alloxan monohydrate**

CAS Number: 3237-50-1

Date Report Requested: **09/15/2018**

Time Report Requested: **23:32:56**

NTP Study Number:

836489

Study Result:

Negative

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Test Compound: Alloxan monohydrate

CAS Number: 3237-50-1

Date Report Requested: 09/15/2018

Time Report Requested: 23:32:56

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 151 ± 1.5 | 158 ± 4.4 | 168 ± 3.9 | 171 ± 2.7 | 163 ± 3.8 |
| 100.0 | 161 ± 6.5 | 139 ± 4.4 | 167 ± 1.8 | 152 ± 7.8 | 150 ± 13.6 |
| 333.0 | 169 ± 3.1 | 131 ± 3.8 | 167 ± 7.8 | 156 ± 11.4 | 154 ± 8.5 |
| 1000.0 | 162 ± 5.0 | 137 ± 13.2 | 174 ± 5.8 | 146 ± 10.6 | 152 ± 13.9 |
| 3333.0 | 155 ± 8.1 | 139 ± 17.8 | 154 ± 10.2 | 166 ± 7.0 | 165 ± 14.2 |
| 10000.0 | 168 ± 11.4 | 138 ± 17.5 | 175 ± 5.0 | 161 ± 12.1 | 127 ± 20.2 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 975 ± 19.6 |
| Positive Control ³ | 528 ± 12.3 | 484 ± 8.8 | | | |
| Positive Control ⁴ | | | 529 ± 1.8 | 361 ± 15.0 | |

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Strain: TA100

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 154 ± 5.5 |
| 100.0 | 173 ± 1.5 |
| 333.0 | 156 ± 9.0 |
| 1000.0 | 148 ± 8.5 |
| 3333.0 | 160 ± 8.8 |
| 10000.0 | 170 ± 3.4 |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ³ | |
| Positive Control ⁴ | 834 ± 11.6 |

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Date Report Requested: 09/15/2018

Time Report Requested: 23:32:56

Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|-----------------------|
| Vehicle Control ¹ | 34 ± 2.5 | 18 ± 2.1 | 12 ± 2.1 | 16 ± 0.7 | 15 ± 1.2 |
| 100.0 | 36 ± 4.0 | 17 ± 0.9 | 8 ± 0.6 | 10 ± 0.6 | 10 ± 1.2 |
| 333.0 | 26 ± 3.5 | 15 ± 0.6 | 8 ± 3.0 | 12 ± 0.6 | 14 ± 3.0 |
| 1000.0 | 23 ± 3.6 | 16 ± 2.0 | 10 ± 1.2 | 12 ± 1.2 | 15 ± 1.2 |
| 1666.0 | | | | | |
| 3333.0 | 27 ± 4.9 | 16 ± 1.2 | 9 ± 1.5 | 17 ± 1.2 | 25 ± 1.7 |
| 6666.0 | | | | | |
| 10000.0 | 31 ± 1.3 | 19 ± 1.2 | 8 ± 1.2 | 11 ± 1.0 | 31 ± 4.9 ^s |
| Trial Summary | Negative | Negative | Negative | Negative | Weakly Positive |
| Positive Control ⁴ | | | | | 234 ± 14.4 |
| Positive Control ³ | 527 ± 22.0 | 525 ± 6.7 | | | |
| Positive Control ⁵ | | | 158 ± 3.8 | 144 ± 5.9 | |

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Test Compound: Alloxan monohydrate

CAS Number: 3237-50-1

Date Report Requested: 09/15/2018

Time Report Requested: 23:32:56

Strain: TA1535

| Dose (ug/Plate) | With 10% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|----------------------------|----------------------------|
| Vehicle Control ¹ | 9 ± 0.6 | 13 ± 2.2 |
| 100.0 | | 8 ± 1.5 |
| 333.0 | 7 ± 0.7 | 9 ± 1.5 |
| 1000.0 | 12 ± 1.9 | 12 ± 1.3 |
| 1666.0 | 8 ± 0.9 | |
| 3333.0 | 7 ± 2.0 | 11 ± 1.5 |
| 6666.0 | 11 ± 1.3 | |
| 10000.0 | | 9 ± 1.8 |
| Trial Summary | Negative | Negative |
| Positive Control ⁴ | 233 ± 31.2 | |
| Positive Control ³ | | |
| Positive Control ⁵ | | 540 ± 41.9 |

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Test Compound: Alloxan monohydrate

CAS Number: 3237-50-1

Date Report Requested: 09/15/2018

Time Report Requested: 23:32:56

Strain: TA97

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 158 ± 8.0 | 126 ± 8.4 | 192 ± 11.3 | 194 ± 9.8 | 190 ± 9.9 |
| 100.0 | 180 ± 12.7 | 123 ± 10.3 | 179 ± 10.0 | 179 ± 10.2 | 185 ± 11.6 |
| 333.0 | 195 ± 4.0 | 142 ± 3.5 | 183 ± 2.6 | 193 ± 14.2 | 182 ± 26.2 |
| 1000.0 | 184 ± 13.3 | 138 ± 11.9 | 176 ± 15.7 | 205 ± 5.8 | 182 ± 5.9 |
| 3333.0 | 171 ± 22.9 | 143 ± 8.5 | 178 ± 14.3 | 173 ± 21.6 | 190 ± 21.2 |
| 10000.0 | 164 ± 12.2 | 127 ± 15.3 | 166 ± 17.2 | 149 ± 13.7 | 169 ± 20.5 |
| Trial Summary | Equivocal | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 473 ± 36.1 |
| Positive Control ⁴ | | | 395 ± 16.4 | | |
| Positive Control ⁵ | | | | 430 ± 33.5 | |
| Positive Control ⁶ | 368 ± 20.8 | | | | |
| Positive Control ⁷ | | 384 ± 1.5 | | | |

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Test Compound: Alloxan monohydrate

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Strain: TA97

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 175 ± 13.3 |
| 100.0 | 180 ± 4.7 |
| 333.0 | 207 ± 3.4 |
| 1000.0 | 158 ± 16.4 |
| 3333.0 | 176 ± 10.2 |
| 10000.0 | 167 ± 33.4 |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ⁴ | 547 ± 15.5 |
| Positive Control ⁵ | |
| Positive Control ⁶ | |
| Positive Control ⁷ | |

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Test Compound: Alloxan monohydrate

CAS Number: 3237-50-1

Date Report Requested: 09/15/2018

Time Report Requested: 23:32:56

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 30% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|-----------------------|
| Vehicle Control ¹ | 33 ± 2.3 | 29 ± 4.4 | 41 ± 3.0 | 31 ± 4.1 | 49 ± 5.0 |
| 100.0 | 38 ± 1.2 | 27 ± 4.8 | 44 ± 2.6 | 31 ± 4.4 | 50 ± 5.3 |
| 333.0 | 36 ± 1.7 | 27 ± 3.2 | 45 ± 2.4 | 32 ± 4.2 | 41 ± 6.4 |
| 1000.0 | 35 ± 2.2 | 29 ± 4.3 | 45 ± 3.8 | 37 ± 2.3 | 44 ± 4.6 |
| 3333.0 | 34 ± 4.7 | 25 ± 3.2 | 43 ± 1.9 | 32 ± 2.5 | 51 ± 8.1 |
| 10000.0 | 35 ± 4.0 | 35 ± 1.9 | 43 ± 1.2 | 29 ± 2.3 | 17 ± 5.7 ^s |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | | | 498 ± 32.1 |
| Positive Control ⁴ | | | 230 ± 1.5 | 93 ± 10.3 | |
| Positive Control ⁸ | 891 ± 86.1 | 798 ± 46.2 | | | |

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Strain: TA98

| Dose (ug/Plate) | With 30% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 42 ± 5.0 |
| 100.0 | 33 ± 4.6 |
| 333.0 | 37 ± 6.9 |
| 1000.0 | 42 ± 2.4 |
| 3333.0 | 46 ± 4.7 |
| 10000.0 | 41 ± 2.0 |
| Trial Summary | Negative |
| Positive Control ² | |
| Positive Control ⁴ | 309 ± 33.8 |
| Positive Control ⁸ | |

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 25.0 ug/Plate 9-Aminoacridine

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****