

Experiment Number: 588195

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

G06: Ames Summary Data

Test Compound: **Urethane**

CAS Number: **51-79-6**

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

Time Report Requested: **17:35:39**

NTP Study Number:

588195

Study Result:

Positive

Experiment Number: 588195

G06: Ames Summary Data

Date Report Requested: 09/14/2018

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

Time Report Requested: 17:35:39

Strain: TA100

| Dose (ug/Plate) | Without S9 | With 5% Rat S9 | With 10% Rat S9 | With 30% Rat S9 | With 30% Rat S9 |
|-------------------------------|-------------------|-----------------------|------------------------|------------------------|------------------------|
| Vehicle Control ¹ | 128 ± 13.2 | 152 ± 1.0 | 169 ± 11.3 | 141 ± 1.7 | 166 ± 8.4 |
| 100.0 | 148 ± 5.9 | 160 ± 7.2 | 155 ± 10.5 | 158 ± 6.8 | 170 ± 5.5 |
| 333.0 | 137 ± 6.7 | 165 ± 4.4 | 166 ± 10.4 | 180 ± 9.2 | 201 ± 9.1 |
| 1000.0 | 152 ± 7.8 | 173 ± 5.8 | 147 ± 3.3 | 189 ± 3.8 | 178 ± 15.5 |
| 3333.0 | 136 ± 3.8 | 166 ± 6.0 | 154 ± 8.5 | 180 ± 8.5 | 151 ± 7.5 |
| 10000.0 | 126 ± 7.2 | 160 ± 11.1 | 155 ± 5.2 | 177 ± 6.5 | 172 ± 6.4 |
| Trial Summary | Negative | Negative | Negative | Equivocal | Negative |
| Positive Control ² | | | | | |
| Positive Control ³ | | 686 ± 28.3 | 443 ± 13.7 | | |
| Positive Control ⁴ | 431 ± 4.7 | | | | |
| Positive Control ⁵ | | | | 321 ± 18.3 | 380 ± 11.0 |

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

Time Report Requested: 17:35:39

Strain: TA100

| Dose (ug/Plate) | With 5% Hamster S9 | With 10% Hamster S9 | With 30% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|---------------------------|----------------------------|----------------------------|----------------------------|
| Vehicle Control ¹ | 165 ± 4.2 | 156 ± 8.7 | 161 ± 7.3 | 172 ± 1.2 |
| 100.0 | 172 ± 5.8 | 167 ± 6.1 | 146 ± 16.7 | 195 ± 15.0 |
| 333.0 | 156 ± 13.0 | 179 ± 4.2 | 162 ± 6.4 | 194 ± 19.7 |
| 1000.0 | 159 ± 11.8 | 183 ± 12.2 | 167 ± 7.9 | 179 ± 10.8 |
| 3333.0 | 163 ± 10.4 | 176 ± 7.5 | 197 ± 4.7 | 193 ± 3.9 |
| 10000.0 | 158 ± 6.6 | 182 ± 4.4 | 217 ± 2.3 | 209 ± 11.9 |
| Trial Summary | Negative | Negative | Equivocal | Negative |
| Positive Control ² | 1080 ± 43.1 | 704 ± 27.2 | | |
| Positive Control ³ | | | 509 ± 17.6 | 627 ± 6.9 |
| Positive Control ⁴ | | | | |
| Positive Control ⁵ | | | | |

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Test Compound: Urethane

CAS Number: 51-79-6

Date Report Requested: 09/14/2018

Time Report Requested: 17:35:39

Strain: TA1535

| Dose (ug/Plate) | Without S9 | With 30% Rat S9 | With 30% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|------------|-----------------|---------------------|---------------------|
| Vehicle Control ¹ | 26 ± 4.2 | 14 ± 1.5 | 13 ± 2.9 | 18 ± 2.6 |
| 100.0 | 21 ± 2.3 | 14 ± 0.7 | 10 ± 0.9 | |
| 333.0 | 19 ± 3.0 | 10 ± 3.1 | 10 ± 2.0 | |
| 1000.0 | 16 ± 1.5 | 14 ± 0.9 | 9 ± 1.2 | 14 ± 1.3 |
| 3333.0 | 18 ± 4.8 | 12 ± 2.0 | 22 ± 3.6 | 29 ± 2.6 |
| 6666.0 | | | | 32 ± 0.9 |
| 10000.0 | 17 ± 2.9 | 14 ± 1.2 | 40 ± 4.2 | 51 ± 3.0 |
| 15000.0 | | | | 56 ± 2.7 |
| Trial Summary | Negative | Negative | Positive | Positive |
| Positive Control ⁴ | 355 ± 1.7 | | | |
| Positive Control ⁵ | | | 447 ± 4.9 | 467 ± 25.7 |
| Positive Control ⁶ | | 110 ± 12.6 | | |

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G06: Ames Summary Data
Test Compound: Urethane
CAS Number: 51-79-6

Date Report Requested: 09/14/2018
Time Report Requested: 17:35:39

Strain: TA1537

| Dose (ug/Plate) | Without S9 | With 30% Rat S9 | With 30% Hamster S9 |
|-------------------------------|------------|-----------------|---------------------|
| Vehicle Control ¹ | 15 ± 0.9 | 11 ± 1.5 | 7 ± 0.9 |
| 100.0 | 6 ± 2.0 | 15 ± 1.8 | 8 ± 1.5 |
| 333.0 | 11 ± 2.3 | 10 ± 2.0 | 8 ± 1.2 |
| 1000.0 | 15 ± 2.1 | 8 ± 1.8 | 7 ± 1.2 |
| 3333.0 | 7 ± 3.0 | 10 ± 0.7 | 8 ± 0.3 |
| 10000.0 | 9 ± 2.3 | 10 ± 1.3 | 7 ± 0.7 |
| Trial Summary | Negative | Negative | Negative |
| Positive Control ³ | | | 53 ± 6.7 |
| Positive Control ⁵ | | 45 ± 2.3 | |
| Positive Control ⁷ | 554 ± 97.4 | | |

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Date Report Requested: 09/14/2018
Time Report Requested: 17:35:39

Strain: TA97

| Dose (ug/Plate) | Without S9 | With 30% Rat S9 | With 30% Hamster S9 |
|-------------------------------|------------|-----------------|---------------------|
| Vehicle Control ¹ | 152 ± 3.7 | 198 ± 7.3 | 172 ± 6.5 |
| 100.0 | 119 ± 8.2 | 211 ± 1.9 | 208 ± 11.9 |
| 333.0 | 106 ± 7.4 | 219 ± 0.9 | 190 ± 23.7 |
| 1000.0 | 136 ± 4.1 | 232 ± 9.0 | 214 ± 5.7 |
| 3333.0 | 142 ± 8.4 | 213 ± 6.1 | 213 ± 7.0 |
| 10000.0 | 139 ± 8.7 | 212 ± 11.5 | 195 ± 13.2 |
| Trial Summary | Negative | Negative | Negative |
| Positive Control ³ | | | 445 ± 35.0 |
| Positive Control ⁵ | | 391 ± 13.1 | |
| Positive Control ⁷ | 580 ± 46.4 | | |

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Time Report Requested: 17:35:39

Strain: TA98

| Dose (ug/Plate) | Without S9 | With 30% Rat S9 | With 30% Hamster S9 |
|-------------------------------|------------|-----------------|---------------------|
| Vehicle Control ¹ | 21 ± 2.8 | 55 ± 3.1 | 35 ± 2.1 |
| 100.0 | 21 ± 3.7 | 41 ± 4.2 | 30 ± 1.5 |
| 333.0 | 23 ± 3.5 | 38 ± 3.2 | 38 ± 2.9 |
| 1000.0 | 17 ± 0.6 | 39 ± 1.8 | 34 ± 3.4 |
| 3333.0 | 24 ± 4.1 | 31 ± 4.0 | 35 ± 4.7 |
| 10000.0 | 18 ± 1.2 | 32 ± 2.2 | 36 ± 4.7 |
| Trial Summary | Negative | Negative | Negative |
| Positive Control ³ | | 109 ± 2.3 | 401 ± 5.5 |
| Positive Control ⁸ | 552 ± 20.5 | | |

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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 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

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

**** END OF REPORT ****