

Experiment Number: 811571

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

G06: Ames Summary Data

Test Compound: **Bromoethane (ethyl bromide)**

CAS Number: 74-96-4

Date Report Requested: 09/15/2018

Time Report Requested: 13:33:34

NTP Study Number:

811571

Study Result:

Positive

Experiment Number: 811571

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 09/15/2018

Time Report Requested: 13:33:34

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | Without S9 | Without S9 |
|-------------------------------|------------|----------------------|------------|-------------|-------------|
| Vehicle Control ¹ | | 103 ± 6.9 | 110 ± 8.1 | 147 ± 5.8 | 124 ± 10.7 |
| Vehicle Control ² | 138 ± 4.6 | | | | |
| 0.01 | | 88 ± 6.4 | | | 130 ± 22.0 |
| 0.025 | | | | | 143 ± 4.3 |
| 0.05 | | 112 ± 6.3 | 129 ± 4.4 | 230 ± 9.2 | 221 ± 12.3 |
| 0.075 | | | 128 ± 8.5 | 341 ± 15.3 | 474 ± 9.0 |
| 0.1 | | 496 ± 15.8 | 136 ± 4.8 | 121 ± 67.5 | 404 ± 3.6 |
| 0.15 | | | 137 ± 5.9 | 1274 ± 31.1 | 1140 ± 55.1 |
| 0.2 | | | 135 ± 7.0 | Toxic | |
| 0.5 | | 0 ± 0.0 ^x | | | |
| 1.0 | | 0 ± 0.0 ^x | | | |
| 5.0 | | | | | |
| 100.0 | 168 ± 3.3 | | | | |
| 333.0 | 159 ± 5.6 | | | | |
| 1000.0 | 143 ± 7.5 | | | | |
| 3333.0 | 143 ± 7.0 | | | | |
| 10000.0 | 121 ± 16.2 | | | | |
| Trial Summary | Negative | Positive | Negative | Positive | Positive |
| Positive Control ³ | | | | | |
| Positive Control ⁴ | 447 ± 13.6 | | | | |
| Positive Control ⁵ | | | | | |
| Positive Control ⁶ | | | | | |
| Positive Control ⁷ | | | | | |
| Positive Control ⁸ | | | | | |
| Positive Control ⁹ | | 1147 ± 33.6 | 861 ± 61.6 | 1010 ± 21.7 | 991 ± 13.9 |

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Strain: TA100

| Dose (ug/Plate) | With 30% Rat S9 | With 30% Rat S9 | With 30% Rat S9 | With 30% Rat S9 | With 30% Rat S9 |
|-------------------------------|-----------------|----------------------|-----------------|-----------------|-----------------|
| Vehicle Control ¹ | | 134 ± 6.2 | 152 ± 10.7 | 150 ± 1.0 | 178 ± 5.9 |
| Vehicle Control ² | 180 ± 16.7 | | | | |
| 0.01 | | 114 ± 5.5 | | | 175 ± 4.7 |
| 0.025 | | | | | 193 ± 16.5 |
| 0.05 | | 136 ± 18.4 | 143 ± 5.9 | 414 ± 7.5 | 329 ± 11.1 |
| 0.075 | | | 142 ± 4.7 | 562 ± 23.4 | 668 ± 27.1 |
| 0.1 | | 613 ± 32.7 | 149 ± 5.0 | 121 ± 9.5 | 647 ± 9.8 |
| 0.15 | | | 142 ± 9.4 | 1465 ± 5.2 | 1405 ± 65.0 |
| 0.2 | | | 126 ± 4.9 | 238 ± 85.2 | |
| 0.5 | | 0 ± 0.0 ^x | | | |
| 1.0 | | 0 ± 0.0 ^x | | | |
| 5.0 | | | | | |
| 100.0 | 203 ± 11.1 | | | | |
| 333.0 | 181 ± 11.3 | | | | |
| 1000.0 | 189 ± 16.9 | | | | |
| 3333.0 | 185 ± 2.0 | | | | |
| 10000.0 | 172 ± 2.6 | | | | |
| Trial Summary | Negative | Positive | Negative | Positive | Positive |
| Positive Control ³ | | | | | |
| Positive Control ⁴ | | | | | |
| Positive Control ⁵ | | | | | |
| Positive Control ⁶ | | | | | |
| Positive Control ⁷ | | 639 ± 14.8 | 471 ± 24.9 | 489 ± 13.1 | 2017 ± 60.1 |
| Positive Control ⁸ | 614 ± 6.6 | | | | |
| Positive Control ⁹ | | | | | |

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G06: Ames Summary Data

Date Report Requested: 09/15/2018

Test Type: Genetic Toxicology - Bacterial
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Test Compound: Bromoethane (ethyl bromide)

Time Report Requested: 13:33:34

CAS Number: 74-96-4

Strain: TA100

| Dose (ug/Plate) | With 30% Hamster S9 | With 30% Hamster S9 | With 30% Hamster S9 | With 30% Hamster S9 | With 30% Hamster S9 |
|-------------------------------|---------------------|----------------------|---------------------|---------------------|---------------------|
| Vehicle Control ¹ | | 147 ± 2.6 | 148 ± 12.1 | 118 ± 14.0 | 170 ± 4.6 |
| Vehicle Control ² | 159 ± 18.8 | | | | |
| 0.01 | | 143 ± 19.1 | | | 172 ± 22.5 |
| 0.025 | | | | | 205 ± 7.1 |
| 0.05 | | 165 ± 8.2 | 151 ± 5.5 | 428 ± 20.0 | 374 ± 10.7 |
| 0.075 | | | 156 ± 12.7 | 639 ± 11.5 | 678 ± 37.5 |
| 0.1 | | 592 ± 12.8 | 145 ± 6.6 | 165 ± 15.9 | 705 ± 15.1 |
| 0.15 | | | 147 ± 11.8 | 1634 ± 4.0 | 1481 ± 36.4 |
| 0.2 | | | 158 ± 5.2 | 297 ± 123.7 | |
| 0.5 | | 0 ± 0.0 ^x | | | |
| 1.0 | | 0 ± 0.0 ^x | | | |
| 5.0 | | | | | |
| 100.0 | 187 ± 10.9 | | | | |
| 333.0 | 186 ± 7.8 | | | | |
| 1000.0 | 177 ± 5.2 | | | | |
| 3333.0 | 201 ± 3.5 | | | | |
| 10000.0 | 156 ± 7.0 | | | | |
| Trial Summary | Equivocal | Positive | Negative | Positive | Positive |
| Positive Control ³ | | 799 ± 40.7 | 248 ± 8.1 | 868 ± 26.4 | 1639 ± 134.0 |
| Positive Control ⁴ | | | | | |
| Positive Control ⁵ | 638 ± 54.0 | | | | |
| Positive Control ⁶ | | | | | |
| Positive Control ⁷ | | | | | |
| Positive Control ⁸ | | | | | |
| Positive Control ⁹ | | | | | |

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Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 09/15/2018

Time Report Requested: 13:33:34

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 30% Rat S9 | With 30% Rat S9 | With 30% Hamster S9 |
|--------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ² | 16 ± 1.9 | | 43 ± 5.0 | | 27 ± 0.9 |
| Vehicle Control ¹ | | 22 ± 2.2 | | 26 ± 0.3 | |
| 0.01 | | 21 ± 3.4 | | 24 ± 2.3 | |
| 0.05 | | 18 ± 2.4 | | 28 ± 0.0 | |
| 0.1 | | 17 ± 1.5 | | 29 ± 2.3 | |
| 0.5 | | 14 ± 3.8 | | 33 ± 6.5 | |
| 1.0 | | 17 ± 4.1 | | 24 ± 1.0 | |
| 5.0 | | | | | |
| 100.0 | 14 ± 0.9 | | 31 ± 6.2 | | 23 ± 3.2 |
| 333.0 | 18 ± 1.2 | | 33 ± 3.3 | | 24 ± 1.3 |
| 1000.0 | 19 ± 3.0 | | 19 ± 1.9 | | 21 ± 2.0 |
| 3333.0 | 16 ± 0.9 | | 24 ± 1.5 | | 19 ± 0.6 |
| 10000.0 | 16 ± 2.6 | | 22 ± 4.2 | | 20 ± 2.3 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ³ | | | | 158 ± 13.4 | |
| Positive Control ⁵ | | | 118 ± 3.5 | | 303 ± 22.0 |
| Positive Control ¹⁰ | | 538 ± 25.2 | | | |
| Positive Control ¹¹ | 461 ± 22.1 | | | | |

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Test Compound: Bromoethane (ethyl bromide)

CAS Number: 74-96-4

Date Report Requested: 09/15/2018

Time Report Requested: 13:33:34

Strain: TA98

| Dose (ug/Plate) | With 30% Hamster S9 |
|--------------------------------|----------------------------|
| Vehicle Control ² | |
| Vehicle Control ¹ | 24 ± 2.3 |
| 0.01 | 21 ± 1.5 |
| 0.05 | 25 ± 0.7 |
| 0.1 | 24 ± 4.1 |
| 0.5 | 24 ± 1.9 |
| 1.0 | 24 ± 0.7 |
| 5.0 | |
| 100.0 | |
| 333.0 | |
| 1000.0 | |
| 3333.0 | |
| 10000.0 | |
| Trial Summary | Negative |
| Positive Control ³ | 472 ± 31.1 |
| Positive Control ⁵ | |
| Positive Control ¹⁰ | |
| Positive Control ¹¹ | |

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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: 4-Nitro-o-Phenylenediamine

2: Vehicle Control: Dimethyl Sulfoxide

3: 1.0 mL/Chamber 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 1.0 ug/Plate 2-Aminoanthracene

6: 1.0 mL/Chamber Sodium Azide

7: 2.5 mL/Chamber 2-Aminoanthracene

8: 2.5 ug/Plate 2-Aminoanthracene

9: 5.0 mL/Chamber Sodium Azide

10: 2.5 mL/Chamber 4-Nitro-O-Phenylenediamine

11: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

x: Slight Toxicity and Precipitate

**** END OF REPORT ****