

Experiment Number: 095791

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: n-Butyl Glycidyl Ether

CAS Number: 2426-08-6

Date Report Requested: 09/11/2018

Time Report Requested: 07:44:54

NTP Study Number:

095791

Study Result:

Positive

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Test Compound: n-Butyl Glycidyl Ether
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Date Report Requested: 09/11/2018

Time Report Requested: 07:44:54

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------------------|--------------------------|--------------------------|-------------------------|--------------------------|
| Vehicle Control ¹ | 104 ± 8.1 | 90 ± 5.5 | 100 ± 1.5 | 89 ± 2.3 | 101 ± 9.2 |
| 33.0 | 126 ± 9.6 | 110 ± 5.1 | 100 ± 8.1 | 89 ± 6.0 | 102 ± 2.2 |
| 100.0 | 203 ± 4.0 | 186 ± 7.0 | 108 ± 6.0 | 97 ± 5.2 | 105 ± 6.5 |
| 333.0 | 385 ± 12.9 | 331 ± 3.5 | 233 ± 19.3 | 199 ± 4.3 | 142 ± 10.7 |
| 1000.0 | 989 ± 44.2 ^s | 934 ± 26.0 | 569 ± 12.3 | 478 ± 15.0 | 777 ± 16.8 |
| 3333.0 | 1923 ± 9.9 ^s | 1514 ± 16.3 ^s | 1835 ± 72.2 ^s | 969 ± 88.4 ^s | 2323 ± 16.9 ^s |
| Trial Summary | Positive | Positive | Positive | Positive | Positive |
| Positive Control ² | | | | | 398 ± 39.9 |
| Positive Control ³ | 260 ± 8.3 | 269 ± 3.8 | | | |
| Positive Control ⁴ | | | 326 ± 3.2 | 311 ± 4.9 | |

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Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 113 ± 5.2 |
| 33.0 | 105 ± 4.8 |
| 100.0 | 121 ± 13.7 |
| 333.0 | 238 ± 16.7 |
| 1000.0 | 1018 ± 11.6 |
| 3333.0 | 2309 ± 83.9 ^s |
| Trial Summary | Positive |
| Positive Control ² | 404 ± 12.9 |
| Positive Control ³ | |
| Positive Control ⁴ | |

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Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------------------|-------------------------|-------------------------|-------------------------|--------------------------|
| Vehicle Control ¹ | 18 ± 3.3 | 14 ± 0.6 | 16 ± 1.2 | 37 ± 3.8 | 12 ± 1.3 |
| 33.0 | 21 ± 1.7 | 15 ± 3.2 | 12 ± 1.2 | 28 ± 1.8 | 10 ± 2.4 |
| 100.0 | 33 ± 4.5 | 14 ± 3.0 | 14 ± 2.7 | 37 ± 2.4 | 11 ± 3.9 |
| 333.0 | 86 ± 3.0 | 34 ± 1.5 | 92 ± 6.7 | 61 ± 5.8 | 98 ± 6.8 |
| 1000.0 | 180 ± 14.1 | 116 ± 2.9 | 315 ± 16.5 | 136 ± 5.4 | 494 ± 36.8 |
| 3333.0 | 146 ± 6.0 ^s | 112 ± 17.6 ^s | 804 ± 63.0 ^s | 350 ± 35.2 ^s | 1936 ± 47.2 ^s |
| Trial Summary | Positive | Positive | Positive | Positive | Positive |
| Positive Control ² | | | | | 40 ± 3.6 |
| Positive Control ³ | 128 ± 8.7 | 76 ± 7.8 | | | |
| Positive Control ⁵ | | | | | |
| Positive Control ⁶ | | | 151 ± 12.0 | 97 ± 2.4 | |

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Strain: TA1535

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 35 ± 1.3 |
| 33.0 | 36 ± 3.2 |
| 100.0 | 34 ± 1.9 |
| 333.0 | 130 ± 4.5 |
| 1000.0 | 433 ± 20.5 |
| 3333.0 | 926 ± 7.5 ^s |
| Trial Summary | Positive |
| Positive Control ² | |
| Positive Control ³ | |
| Positive Control ⁵ | 75 ± 3.1 |
| Positive Control ⁶ | |

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Test Compound: n-Butyl Glycidyl Ether
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Strain: TA97

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------------------|------------------------|-------------------------|-------------------------|-------------------------|
| Vehicle Control ¹ | 96 ± 2.4 | 80 ± 6.6 | 167 ± 3.3 | 114 ± 6.5 | 117 ± 1.5 |
| 33.0 | 93 ± 5.8 | 80 ± 8.0 | 130 ± 11.4 | 98 ± 9.7 | 112 ± 1.2 |
| 100.0 | 107 ± 5.9 | 91 ± 4.5 | 136 ± 3.8 | 85 ± 2.6 | 155 ± 25.2 |
| 333.0 | 165 ± 9.0 | 153 ± 12.5 | 195 ± 6.7 | 105 ± 7.9 | 133 ± 7.2 |
| 1000.0 | 281 ± 11.9 | 176 ± 4.6 ^s | 329 ± 5.5 | 234 ± 1.7 | 299 ± 7.4 |
| 3333.0 | 154 ± 30.5 ^s | 67 ± 13.8 ^s | 676 ± 25.5 ^s | 245 ± 18.8 ^s | 946 ± 24.0 ^s |
| Trial Summary | Positive | Weakly Positive | Positive | Weakly Positive | Positive |
| Positive Control ⁴ | | | | | 459 ± 10.3 |
| Positive Control ⁶ | | | 835 ± 15.0 | 577 ± 18.0 | |
| Positive Control ⁷ | 306 ± 4.8 | | | | |
| Positive Control ⁸ | | 226 ± 26.4 | | | |

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Strain: TA97

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|----------------------------|
| Vehicle Control ¹ | 127 ± 11.7 |
| 33.0 | 111 ± 6.8 |
| 100.0 | 157 ± 3.1 |
| 333.0 | 163 ± 5.0 |
| 1000.0 | 363 ± 16.7 |
| 3333.0 | 686 ± 20.0 ^s |
| Trial Summary | Positive |
| Positive Control ⁴ | 554 ± 10.2 |
| Positive Control ⁶ | |
| Positive Control ⁷ | |
| Positive Control ⁸ | |

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Strain: TA98

| Dose (ug/Plate) | Without S9 | With 10% Rat S9 | With 10% Hamster S9 |
|--------------------------------|-----------------------|------------------------|----------------------------|
| Vehicle Control ¹ | 20 ± 3.8 | 27 ± 1.9 | 31 ± 0.9 |
| 33.0 | 16 ± 1.5 | 25 ± 5.4 | 26 ± 1.5 |
| 100.0 | 21 ± 4.5 | 28 ± 2.0 | 25 ± 3.5 |
| 333.0 | 18 ± 0.3 | 32 ± 2.9 | 21 ± 2.3 |
| 1000.0 | 19 ± 1.2 | 27 ± 2.7 | 30 ± 1.5 |
| 3333.0 | 22 ± 4.0 ^s | 26 ± 1.5 ^s | 34 ± 0.3 ^s |
| Trial Summary | Negative | Negative | Negative |
| Positive Control ⁹ | | | 202 ± 10.0 |
| Positive Control ² | | 136 ± 9.0 | |
| Positive Control ¹⁰ | 137 ± 7.6 | | |

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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: Dimethyl Sulfoxide

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 4.0 ug/Plate 9-Aminoacridine

8: 8.0 ug/Plate 9-Aminoacridine

9: 0.2 ug/Plate 2-Aminoanthracene

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****