

Experiment Number: 859866

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Chloroethyl acrylate

CAS Number: 2206-89-5

Date Report Requested: 09/16/2018

Time Report Requested: 13:24:36

NTP Study Number:

859866

Study Result:

Positive

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Test Compound: 2-Chloroethyl acrylate

CAS Number: 2206-89-5

Date Report Requested: 09/16/2018

Time Report Requested: 13:24:36

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|-----------------|--------------|-------------|-----------------|-----------------|
| Vehicle Control ¹ | 64 ± 9.5 | 102 ± 6.6 | 83 ± 6.7 | 155 ± 8.7 | 148 ± 7.4 |
| 10.0 | | 93 ± 2.0 | 81 ± 3.7 | | |
| 33.0 | 102 ± 3.3 | 98 ± 6.1 | 88 ± 12.9 | 142 ± 11.3 | 131 ± 12.4 |
| 100.0 | 114 ± 30.6 | 91 ± 2.3 | 85 ± 5.5 | 183 ± 18.5 | 143 ± 10.1 |
| 333.0 | 129 ± 16.2 | 76 ± 11.5 | 72 ± 1.0 | 148 ± 1.9 | 146 ± 6.4 |
| 667.0 | | | | | |
| 1000.0 | 37 ± 14.0 | Toxic | 54 ± 2.7 | 152 ± 15.0 | 170 ± 6.5 |
| 1667.0 | | | | | |
| 3333.0 | 0 ± 0.0 | | | 114 ± 6.1 | 232 ± 12.2 |
| Trial Summary | Weakly Positive | Negative | Negative | Negative | Weakly Positive |
| Positive Control ² | | | | 1856 ± 68.7 | 2464 ± 155.2 |
| Positive Control ³ | 401 ± 15.9 | 1192 ± 187.4 | 1599 ± 46.0 | | |

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Strain: TA100

| Dose (ug/Plate) | With 10% Rat S9 | With 10% Hamster S9 | With 10% Hamster S9 | With 10% Hamster S9 |
|-------------------------------|-----------------|---------------------|---------------------|---------------------|
| Vehicle Control ¹ | 98 ± 15.3 | 144 ± 7.3 | 153 ± 9.7 | 127 ± 13.7 |
| 10.0 | | | | |
| 33.0 | | 171 ± 11.8 | 145 ± 5.5 | |
| 100.0 | | 163 ± 12.8 | 153 ± 5.2 | |
| 333.0 | 101 ± 3.2 | 186 ± 11.3 | 149 ± 4.0 | 122 ± 15.8 |
| 667.0 | 125 ± 5.2 | | | 141 ± 4.8 |
| 1000.0 | 133 ± 8.4 | 163 ± 18.4 | 184 ± 16.8 | 131 ± 4.4 |
| 1667.0 | 161 ± 9.9 | | | 142 ± 9.6 |
| 3333.0 | 163 ± 2.3 | 117 ± 8.7 | 242 ± 13.9 | 177 ± 4.3 |
| Trial Summary | Weakly Positive | Equivocal | Weakly Positive | Equivocal |
| Positive Control ² | 2002 ± 49.7 | 1270 ± 110.0 | 1413 ± 38.9 | 2191 ± 53.3 |
| Positive Control ³ | | | | |

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Test Compound: 2-Chloroethyl acrylate

CAS Number: 2206-89-5

Date Report Requested: 09/16/2018

Time Report Requested: 13:24:36

Strain: TA1535

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|------------|--------------|------------|-----------------|-----------------|
| Vehicle Control ¹ | 4 ± 1.0 | 24 ± 2.3 | 9 ± 1.0 | 9 ± 0.3 | 17 ± 0.3 |
| 10.0 | | 17 ± 0.3 | 8 ± 0.9 | | |
| 33.0 | 7 ± 1.2 | 14 ± 3.5 | 8 ± 2.1 | 10 ± 3.0 | 23 ± 3.0 |
| 100.0 | 7 ± 1.2 | 18 ± 0.9 | 6 ± 0.9 | 10 ± 0.9 | 35 ± 5.6 |
| 333.0 | 7 ± 1.2 | 16 ± 0.7 | 7 ± 0.7 | 8 ± 1.5 | 52 ± 2.9 |
| 1000.0 | Toxic | Toxic | Toxic | 6 ± 1.2 | 111 ± 11.0 |
| 3333.0 | 0 ± 0.0 | | | 2 ± 0.9 | 110 ± 18.4 |
| Trial Summary | Negative | Negative | Negative | Negative | Positive |
| Positive Control ⁴ | | | | 68 ± 0.9 | 305 ± 88.2 |
| Positive Control ³ | 371 ± 28.6 | 1381 ± 118.6 | 143 ± 35.8 | | |

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Time Report Requested: 13:24:36

Strain: TA1535

| Dose (ug/Plate) | With 10% Rat S9 | With 10% Hamster S9 | With 10% Hamster S9 | With 10% Hamster S9 |
|-------------------------------|-----------------|---------------------|---------------------|---------------------|
| Vehicle Control ¹ | 14 ± 0.6 | 8 ± 2.1 | 19 ± 2.0 | 6 ± 1.2 |
| 10.0 | | | | |
| 33.0 | 11 ± 0.9 | 13 ± 0.3 | 14 ± 3.6 | 12 ± 2.3 |
| 100.0 | 12 ± 2.6 | 10 ± 1.9 | 15 ± 2.3 | 15 ± 1.0 |
| 333.0 | 20 ± 2.1 | 14 ± 0.9 | 20 ± 0.6 | 21 ± 1.5 |
| 1000.0 | 53 ± 2.6 | 6 ± 0.9 | 52 ± 4.7 | 42 ± 2.9 |
| 3333.0 | 80 ± 5.8 | 4 ± 2.2 | 95 ± 5.7 | 60 ± 4.3 |
| Trial Summary | Positive | Negative | Positive | Positive |
| Positive Control ⁴ | 354 ± 19.2 | 468 ± 30.7 | 577 ± 74.5 | 135 ± 3.8 |
| Positive Control ³ | | | | |

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Test Compound: 2-Chloroethyl acrylate

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Strain: TA1537

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|-------------|-------------|------------|-----------------|-----------------|
| Vehicle Control ¹ | 8 ± 0.6 | 14 ± 0.3 | 7 ± 0.9 | 8 ± 0.3 | 27 ± 1.0 |
| 3.0 | | | 6 ± 2.7 | | |
| 3.3 | | 17 ± 3.2 | | | |
| 10.0 | | 11 ± 1.3 | 4 ± 0.9 | | |
| 33.0 | 10 ± 1.7 | 13 ± 1.2 | 6 ± 0.9 | 10 ± 1.0 | 38 ± 0.9 |
| 100.0 | 11 ± 2.5 | 9 ± 0.9 | 8 ± 0.0 | 10 ± 1.9 | 42 ± 3.5 |
| 333.0 | 3 ± 2.0 | 7 ± 0.3 | 3 ± 0.9 | 5 ± 1.8 | 36 ± 1.3 |
| 1000.0 | 0 ± 0.0 | | | 7 ± 2.6 | 22 ± 1.5 |
| 3333.0 | 0 ± 0.0 | | | 5 ± 3.5 | Toxic |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ⁴ | | | | 277 ± 84.4 | 97 ± 0.9 |
| Positive Control ⁵ | 824 ± 129.2 | 691 ± 228.8 | 836 ± 55.4 | | |

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Strain: TA1537

| Dose (ug/Plate) | With 10% Hamster S9 | With 10% Hamster S9 |
|-------------------------------|----------------------------|----------------------------|
| Vehicle Control ¹ | 15 ± 2.4 | 33 ± 4.4 |
| 3.0 | | |
| 3.3 | | |
| 10.0 | | |
| 33.0 | 14 ± 1.8 | 37 ± 1.5 |
| 100.0 | 14 ± 0.7 | 37 ± 2.2 |
| 333.0 | 10 ± 1.9 | 27 ± 2.3 |
| 1000.0 | 15 ± 1.2 | 28 ± 3.0 |
| 3333.0 | Toxic | Toxic |
| Trial Summary | Negative | Negative |
| Positive Control ⁴ | 184 ± 4.0 | 104 ± 5.7 |
| Positive Control ⁵ | | |

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Test Compound: 2-Chloroethyl acrylate

CAS Number: 2206-89-5

Date Report Requested: 09/16/2018

Time Report Requested: 13:24:36

Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 |
|-------------------------------|------------|------------|------------|-----------------|-----------------|
| Vehicle Control ¹ | 22 ± 1.8 | 28 ± 2.9 | 18 ± 1.5 | 27 ± 3.0 | 41 ± 2.5 |
| 3.0 | | | 19 ± 4.0 | | |
| 3.3 | | 22 ± 3.7 | | | |
| 10.0 | | 29 ± 3.5 | 15 ± 1.8 | | |
| 33.0 | 18 ± 1.9 | 30 ± 1.3 | 13 ± 0.6 | 30 ± 1.0 | 40 ± 3.8 |
| 100.0 | 9 ± 4.0 | 31 ± 1.7 | 17 ± 1.0 | 28 ± 4.3 | 36 ± 1.5 |
| 333.0 | 4 ± 1.9 | 37 ± 2.6 | 15 ± 0.7 | 32 ± 2.7 | 40 ± 1.2 |
| 1000.0 | 0 ± 0.0 | | | 36 ± 0.6 | 28 ± 0.7 |
| 3333.0 | 0 ± 0.0 | | | Toxic | 45 ± 8.7 |
| Trial Summary | Negative | Equivocal | Negative | Negative | Negative |
| Positive Control ² | | | | 2777 ± 71.9 | 1114 ± 269.9 |
| Positive Control ⁶ | 635 ± 36.9 | 307 ± 10.7 | 566 ± 10.7 | | |

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Strain: TA98

| Dose (ug/Plate) | With 10% Rat S9 | With 10% Hamster S9 | With 10% Hamster S9 |
|-------------------------------|------------------------|----------------------------|----------------------------|
| Vehicle Control ¹ | 28 ± 3.2 | 45 ± 2.6 | 47 ± 2.3 |
| 3.0 | | | |
| 3.3 | | | |
| 10.0 | | | |
| 33.0 | 27 ± 6.1 | 50 ± 1.3 | 38 ± 2.7 |
| 100.0 | 28 ± 4.9 | 43 ± 3.2 | 35 ± 5.8 |
| 333.0 | 23 ± 4.0 | 38 ± 5.7 | 45 ± 3.4 |
| 1000.0 | 29 ± 3.5 | 32 ± 1.8 | 41 ± 0.7 |
| 3333.0 | 28 ± 2.7 | Toxic | 44 ± 2.8 |
| Trial Summary | Negative | Negative | Negative |
| Positive Control ² | 1537 ± 48.4 | 1535 ± 68.9 | 962 ± 62.8 |
| Positive Control 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: 1.0 ug/Plate 2-Aminoanthracene
- 3: 3.3 ug/Plate Sodium Azide
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 33.0 ug/Plate 9-Aminoacridine
- 6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****