

Experiment Number: 430543

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

G06: Ames Summary Data

Test Compound: **3-Sulfolene**

CAS Number: **77-79-2**

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

Time Report Requested: **06:42:18**

NTP Study Number:

430543

Study Result:

Negative

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Mutagenicity**G06: Ames Summary Data**

Test Compound: 3-Sulfolene

CAS Number: 77-79-2

Date Report Requested: 09/15/2018

Time Report Requested: 06:42:18

Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------------|-------------------|------------------------|------------------------|----------------------------|
| Vehicle Control ¹ | 88 ± 10.5 | 117 ± 8.8 | 129 ± 18.1 | 198 ± 17.5 | 111 ± 25.8 |
| 100.0 | 71 ± 3.5 | 114 ± 10.0 | 167 ± 8.6 | 185 ± 1.2 | 94 ± 6.7 |
| 333.0 | 57 ± 3.0 | 105 ± 2.2 | 154 ± 9.6 | 189 ± 2.2 | 105 ± 8.7 |
| 1000.0 | 51 ± 2.3 | 103 ± 6.2 | 148 ± 7.4 | 178 ± 3.5 | 107 ± 12.5 |
| 3333.0 | 46 ± 2.7 | 120 ± 13.2 | 126 ± 6.4 | 161 ± 5.0 | 114 ± 8.2 |
| 10000.0 | 59 ± 2.5 | 127 ± 11.9 | 119 ± 6.2 | 161 ± 6.5 | 102 ± 10.5 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 1487 ± 88.1 | 1254 ± 191.7 | 1794 ± 137.6 |
| Positive Control ³ | 398 ± 19.9 | 326 ± 19.1 | | | |

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Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control ¹ | 163 ± 10.5 |
| 100.0 | 156 ± 10.7 |
| 333.0 | 165 ± 10.7 |
| 1000.0 | 167 ± 6.4 |
| 3333.0 | 149 ± 17.7 |
| 10000.0 | 152 ± 1.2 |
| Trial Summary | Negative |
| Positive Control ² | 2217 ± 106.5 |
| Positive Control ³ | |

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Mutagenicity**G06: Ames Summary Data**

Test Compound: 3-Sulfolene

CAS Number: 77-79-2

Date Report Requested: 09/15/2018

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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 | 6 ± 1.5 | 6 ± 0.3 | 5 ± 3.0 | 8 ± 1.8 | 10 ± 0.6 |
| 100.0 | 5 ± 1.0 | 8 ± 1.3 | 3 ± 0.7 | 6 ± 0.7 | 4 ± 0.6 |
| 333.0 | 1 ± 0.6 | 8 ± 3.2 | 3 ± 0.3 | 7 ± 1.7 | 4 ± 1.5 |
| 1000.0 | 3 ± 0.3 | 8 ± 2.6 | 7 ± 1.0 | 9 ± 1.2 | 5 ± 0.3 |
| 3333.0 | 3 ± 0.3 | 5 ± 1.2 | 5 ± 0.7 | 8 ± 1.5 | 5 ± 0.0 |
| 10000.0 | 1 ± 0.6 | 7 ± 1.7 | 6 ± 1.5 | 8 ± 0.9 | 8 ± 0.3 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 33 ± 2.9 | 49 ± 7.3 | 41 ± 0.9 |
| Positive Control ³ | 67 ± 8.1 | 76 ± 5.1 | | | |

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Strain: TA1535

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control ¹ | 10 ± 2.6 |
| 100.0 | 8 ± 3.2 |
| 333.0 | 16 ± 1.0 |
| 1000.0 | 9 ± 4.3 |
| 3333.0 | 10 ± 2.9 |
| 10000.0 | 10 ± 1.5 |
| Trial Summary | Negative |
| Positive Control ² | 46 ± 2.3 |
| Positive Control ³ | |

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Mutagenicity**G06: Ames Summary Data**

Test Compound: 3-Sulfolene

CAS Number: 77-79-2

Date Report Requested: 09/15/2018

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Strain: TA1537

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 3 ± 1.5 | 6 ± 2.1 | 7 ± 2.0 | 7 ± 0.3 | 6 ± 3.5 |
| 100.0 | 1 ± 0.6 | 8 ± 1.0 | 3 ± 0.7 | 6 ± 2.0 | 2 ± 0.3 |
| 333.0 | 2 ± 0.3 | 6 ± 1.2 | 4 ± 0.6 | 5 ± 0.6 | 7 ± 1.2 |
| 1000.0 | 1 ± 0.3 | 7 ± 1.0 | 1 ± 0.3 | 3 ± 0.9 | 4 ± 1.5 |
| 3333.0 | 1 ± 0.7 | 6 ± 0.9 | 4 ± 0.9 | 5 ± 1.0 | 4 ± 0.9 |
| 10000.0 | 6 ± 1.2 | 14 ± 1.2 | 3 ± 0.6 | 5 ± 1.5 | 5 ± 1.2 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 161 ± 22.9 | 34 ± 5.5 | 65 ± 10.4 |
| Positive Control ⁴ | 181 ± 22.9 | 146 ± 17.7 | | | |

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Strain: TA1537

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control ¹ | 12 ± 3.1 |
| 100.0 | 12 ± 0.3 |
| 333.0 | 10 ± 2.0 |
| 1000.0 | 8 ± 1.2 |
| 3333.0 | 11 ± 4.6 |
| 10000.0 | 11 ± 3.0 |
| Trial Summary | Negative |
| Positive Control ² | 61 ± 7.5 |
| Positive Control ⁴ | |

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Test Compound: 3-Sulfolene

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Date Report Requested: 09/15/2018

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Strain: TA98

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|------------|------------|-----------------|-----------------|---------------------|
| Vehicle Control ¹ | 12 ± 3.1 | 13 ± 1.3 | 17 ± 4.0 | 15 ± 1.0 | 12 ± 3.3 |
| 100.0 | 11 ± 2.1 | 11 ± 1.2 | 18 ± 2.2 | 19 ± 1.7 | 15 ± 2.3 |
| 333.0 | 25 ± 0.9 | 13 ± 2.1 | 15 ± 1.3 | 13 ± 0.9 | 10 ± 2.5 |
| 1000.0 | 10 ± 0.9 | 10 ± 0.7 | 15 ± 0.6 | 14 ± 0.6 | 12 ± 1.3 |
| 3333.0 | 17 ± 1.3 | 14 ± 2.9 | 12 ± 1.3 | 20 ± 4.7 | 17 ± 2.0 |
| 10000.0 | 9 ± 0.3 | 10 ± 1.5 | 19 ± 1.2 | 16 ± 1.5 | 16 ± 1.9 |
| Trial Summary | Negative | Negative | Negative | Negative | Negative |
| Positive Control ² | | | 749 ± 57.6 | 377 ± 15.9 | 1467 ± 166.9 |
| Positive Control ⁵ | 206 ± 9.6 | 206 ± 7.9 | | | |

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G06: Ames Summary Data

Test Compound: 3-Sulfolene

CAS Number: 77-79-2

Date Report Requested: 09/15/2018

Time Report Requested: 06:42:18

Strain: TA98

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|---------------------|
| Vehicle Control ¹ | 17 ± 2.4 |
| 100.0 | 21 ± 0.0 |
| 333.0 | 17 ± 1.5 |
| 1000.0 | 13 ± 2.1 |
| 3333.0 | 19 ± 2.7 |
| 10000.0 | 17 ± 2.9 |
| Trial Summary | Negative |
| Positive Control ² | 1447 ± 167.4 |
| Positive Control 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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****