

Experiment Number: 907385

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Dioxathion

CAS Number: 78-34-2

Date Report Requested: 09/17/2018

Time Report Requested: 01:31:57

NTP Study Number:

907385

Study Result:

Positive

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Strain: TA100

| Dose (ug/Plate) | Without S9 | Without S9 | With 10% Rat S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------------------|-------------|-------------------------|------------------------|-------------------------|
| Vehicle Control ¹ | 131 ± 7.0 | 114 ± 13.0 | 126 ± 4.6 | 111 ± 8.8 | 173 ± 8.8 |
| 100.0 | 151 ± 8.5 | | 134 ± 6.0 | | 171 ± 2.9 |
| 333.0 | 139 ± 2.9 | 136 ± 9.2 | 143 ± 7.3 | 132 ± 8.1 | 178 ± 15.0 |
| 1000.0 | 177 ± 8.1 | 161 ± 5.0 | 164 ± 6.9 | 118 ± 7.0 | 158 ± 6.9 |
| 3333.0 | 181 ± 4.7 | 186 ± 0.9 | 171 ± 11.6 ^P | 161 ± 4.0 ^P | 204 ± 8.7 ^P |
| 6667.0 | | 233 ± 19.1 | | 184 ± 3.2 ^P | |
| 10000.0 | 249 ± 17.2 ^P | 265 ± 4.7 | 222 ± 17.1 ^P | 192 ± 5.7 ^P | 274 ± 18.8 ^P |
| Trial Summary | Weakly Positive | Positive | Weakly Positive | Weakly Positive | Equivocal |
| Positive Control ² | | | | | 1022 ± 53.7 |
| Positive Control ³ | | | 995 ± 20.6 | 734 ± 9.9 | |
| Positive Control ⁴ | 1220 ± 18.9 | 1181 ± 14.4 | | | |

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Strain: TA100

| Dose (ug/Plate) | With 10% Hamster S9 |
|-------------------------------|-------------------------|
| Vehicle Control ¹ | 99 ± 2.6 |
| 100.0 | |
| 333.0 | 118 ± 4.3 |
| 1000.0 | 134 ± 11.5 |
| 3333.0 | 143 ± 8.8 ^P |
| 6667.0 | 171 ± 6.7 ^P |
| 10000.0 | 208 ± 15.7 ^P |
| Trial Summary | Positive |
| Positive Control ² | 793 ± 32.7 |
| Positive Control ³ | |
| Positive Control ⁴ | |

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Strain: TA1535

| Dose (ug/Plate) | Without S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-----------------------|-----------------------|-----------------------|
| Vehicle Control ¹ | 24 ± 2.6 | 21 ± 1.2 | 19 ± 3.2 |
| 100.0 | 22 ± 2.0 | 18 ± 2.9 | 22 ± 1.2 |
| 333.0 | 29 ± 2.8 | 19 ± 1.2 | 18 ± 0.6 |
| 1000.0 | 27 ± 4.8 | 16 ± 2.9 | 19 ± 2.7 |
| 3333.0 | 34 ± 1.5 | 20 ± 1.2 ^p | 21 ± 1.9 ^p |
| 10000.0 | 27 ± 2.3 ^p | 20 ± 0.6 ^p | 21 ± 4.6 ^p |
| Trial Summary | Negative | Negative | Negative |
| Positive Control ² | | | 101 ± 5.8 |
| Positive Control ³ | | 79 ± 4.4 | |
| Positive Control ⁴ | 837 ± 36.7 | | |

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Strain: TA1537

| Dose (ug/Plate) | Without S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|----------------------|----------------------|-----------------------|
| Vehicle Control ¹ | 4 ± 0.9 | 10 ± 3.0 | 13 ± 2.0 |
| 100.0 | 4 ± 1.7 | 12 ± 3.1 | 9 ± 1.7 |
| 333.0 | 9 ± 1.5 | 8 ± 1.9 | 11 ± 1.5 |
| 1000.0 | 5 ± 0.0 | 8 ± 0.7 | 6 ± 1.5 |
| 3333.0 | 5 ± 0.9 | 8 ± 1.5 ^P | 6 ± 0.6 ^P |
| 10000.0 | 8 ± 0.9 ^P | 6 ± 0.7 ^P | 10 ± 1.2 ^P |
| Trial Summary | Negative | Negative | Negative |
| Positive Control ² | | | 80 ± 3.1 |
| Positive Control ³ | | 93 ± 3.5 | |
| Positive Control ⁵ | 292 ± 39.5 | | |

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Strain: TA98

| Dose (ug/Plate) | Without S9 | With 10% Rat S9 | With 10% Hamster S9 |
|-------------------------------|-------------|-----------------------|-----------------------|
| Vehicle Control ¹ | 21 ± 0.7 | 21 ± 2.7 | 28 ± 3.8 |
| 100.0 | 22 ± 1.7 | 28 ± 1.0 | 29 ± 4.3 |
| 333.0 | 24 ± 2.4 | 23 ± 2.0 | 26 ± 4.3 |
| 1000.0 | 22 ± 1.9 | 25 ± 3.3 | 33 ± 0.7 |
| 3333.0 | 23 ± 0.9 | 25 ± 2.3 ^P | 30 ± 3.1 ^P |
| 10000.0 | 22 ± 1.7 | 27 ± 1.3 ^P | 33 ± 1.5 ^P |
| Trial Summary | Negative | Negative | Negative |
| Positive Control ² | | | 912 ± 25.6 |
| Positive Control ³ | | 859 ± 59.3 | |
| Positive Control ⁶ | 1209 ± 23.3 | | |

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

** END OF REPORT **