

Experiment Number: 099804

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Thiophene

CAS Number: 110-02-1

Date Report Requested: 09/11/2018

Time Report Requested: 13:19:09

NTP Study Number:

099804

Study Result:

Negative

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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	113 ± 7.7	93 ± 3.3	147 ± 5.4	130 ± 8.7	122 ± 6.4
100.0	119 ± 7.1	85 ± 8.8	180 ± 4.1	103 ± 8.1	172 ± 10.9
333.0	131 ± 12.1	88 ± 11.1	187 ± 4.9	136 ± 2.9	172 ± 8.2
1000.0	117 ± 5.4	85 ± 7.5	189 ± 19.2	136 ± 11.6	162 ± 5.9
3333.0	106 ± 5.7	90 ± 5.7	172 ± 10.6	120 ± 5.7	131 ± 10.3
10000.0	123 ± 3.8	92 ± 3.5	179 ± 12.7	122 ± 4.5	152 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²			2501 ± 325.6	2344 ± 86.6	2564 ± 209.5
Positive Control ³	1199 ± 148.3	1464 ± 57.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	120 ± 6.0
100.0	109 ± 13.1
333.0	110 ± 4.0
1000.0	115 ± 8.2
3333.0	116 ± 4.7
10000.0	104 ± 3.0
Trial Summary	Negative
Positive Control ²	1963 ± 321.6
Positive Control ³	

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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	14 ± 0.9	6 ± 0.9	16 ± 1.7	4 ± 0.6	13 ± 2.2
100.0	13 ± 1.3	4 ± 1.0	19 ± 1.2	5 ± 1.8	15 ± 2.6
333.0	9 ± 0.9	5 ± 0.9	16 ± 3.8	3 ± 0.9	15 ± 1.5
1000.0	15 ± 1.9	6 ± 0.9	15 ± 2.7	5 ± 1.5	9 ± 3.0
3333.0	10 ± 0.9	4 ± 1.2	14 ± 4.1	4 ± 1.5	9 ± 1.7
10000.0	8 ± 1.5	5 ± 1.2	11 ± 2.1	5 ± 1.5	5 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			281 ± 31.3	117 ± 11.6	214 ± 41.5
Positive Control ³	1009 ± 110.0	281 ± 27.9			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	3 ± 0.3
100.0	4 ± 1.8
333.0	7 ± 0.9
1000.0	4 ± 0.3
3333.0	6 ± 1.2
10000.0	5 ± 1.2
Trial Summary	Negative
Positive Control ⁴	184 ± 8.1
Positive Control ³	

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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	12 ± 0.6	4 ± 1.3	9 ± 2.7	5 ± 1.2	15 ± 2.3
100.0	10 ± 1.5	5 ± 1.7	15 ± 1.5	9 ± 1.5	16 ± 1.5
333.0	10 ± 0.9	6 ± 0.3	16 ± 1.5	7 ± 0.5	15 ± 1.0
1000.0	12 ± 2.0	6 ± 2.2	16 ± 1.5	8 ± 2.4	16 ± 1.5
3333.0	8 ± 2.4	6 ± 2.0	12 ± 3.5	6 ± 0.6	9 ± 1.2
10000.0	3 ± 0.9	Toxic	16 ± 2.9	7 ± 0.6	14 ± 1.5
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ⁴			48 ± 7.1	241 ± 27.5	123 ± 5.0
Positive Control ⁵	1017 ± 184.1	291 ± 11.5			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.2
100.0	8 ± 3.5
333.0	7 ± 2.8
1000.0	11 ± 0.3
3333.0	10 ± 1.2
10000.0	6 ± 1.2
Trial Summary	Negative
Positive Control ⁴	195 ± 38.7
Positive Control ⁵	

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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	24 ± 3.8	12 ± 3.3	38 ± 5.0	19 ± 3.0	38 ± 2.0
100.0	38 ± 1.2	12 ± 2.9	35 ± 3.3	16 ± 1.3	35 ± 5.5
333.0	38 ± 3.5	16 ± 1.9	31 ± 3.5	17 ± 1.2	30 ± 2.9
1000.0	26 ± 2.0	12 ± 2.0	29 ± 1.2	14 ± 2.2	26 ± 2.2
3333.0	43 ± 2.9	14 ± 1.5	32 ± 1.8	16 ± 2.3	27 ± 5.6
10000.0	27 ± 3.8	12 ± 3.0	31 ± 4.8	22 ± 4.2	33 ± 2.7
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²			1439 ± 93.5	613 ± 187.6	998 ± 146.5
Positive Control ⁶	309 ± 5.5	187 ± 33.6			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	16 ± 1.8
100.0	17 ± 1.7
333.0	19 ± 3.6
1000.0	17 ± 3.5
3333.0	23 ± 3.2
10000.0	20 ± 4.0
Trial Summary	Negative
Positive Control ²	1113 ± 43.6
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 **