

Experiment Number: 155526

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

G06: Ames Summary Data

Test Compound: **1-Phenyl-2-thiourea**

CAS Number: **103-85-5**

Date Report Requested: **09/12/2018**

Time Report Requested: **20:53:54**

NTP Study Number:

155526

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	144 ± 3.2	126 ± 2.0	129 ± 9.1	161 ± 0.7	132 ± 7.7
100.0	116 ± 8.3	117 ± 11.9	148 ± 5.8	126 ± 1.2	134 ± 3.5
333.0	129 ± 4.0	141 ± 3.2	153 ± 5.8	112 ± 4.0	132 ± 7.1
1000.0	143 ± 10.5	145 ± 9.7	157 ± 7.1	103 ± 6.0	117 ± 9.5
3333.0	110 ± 7.5	134 ± 9.8	138 ± 1.5	101 ± 7.0	130 ± 9.6
10000.0	0 ± 0.0 ^s	2 ± 2.0 ^s	14 ± 13.7 ^s	102 ± 3.5	14 ± 14.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	407 ± 29.7	268 ± 19.3			
Positive Control ³			783 ± 47.7	742 ± 48.2	1711 ± 71.5

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	93 ± 7.2
100.0	89 ± 6.7
333.0	95 ± 9.4
1000.0	84 ± 9.8
3333.0	81 ± 10.5
10000.0	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1572 ± 41.5

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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	35 ± 5.7	18 ± 1.2	15 ± 1.2	12 ± 2.0	7 ± 0.0
100.0	37 ± 2.6	23 ± 1.9	17 ± 5.4	11 ± 2.3	12 ± 3.8
333.0	35 ± 3.0	22 ± 3.5	15 ± 1.8	8 ± 3.2	12 ± 2.2
1000.0	44 ± 5.2	31 ± 5.0	16 ± 1.9	10 ± 2.4	11 ± 1.5
3333.0	47 ± 8.0	31 ± 5.2	9 ± 1.9	10 ± 2.5	20 ± 2.6
10000.0	21 ± 5.0	3 ± 1.8 ^s	7 ± 4.3	10 ± 1.0	19 ± 1.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	359 ± 3.6	175 ± 23.2			
Positive Control ⁴			230 ± 11.1	114 ± 6.1	430 ± 11.0

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.9
100.0	10 ± 2.5
333.0	6 ± 1.8
1000.0	7 ± 0.7
3333.0	12 ± 2.1
10000.0	7 ± 3.3
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	326 ± 15.2

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Mutagenicity**G06: Ames Summary Data**

Test Compound: 1-Phenyl-2-thiourea

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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	5 ± 1.2	6 ± 0.3	12 ± 1.8	14 ± 1.7	7 ± 0.9
100.0	4 ± 2.1	7 ± 1.2	13 ± 0.6	12 ± 2.0	7 ± 1.0
333.0	6 ± 0.3	7 ± 0.3	9 ± 2.1	8 ± 2.3	7 ± 2.8
1000.0	5 ± 1.7	6 ± 0.3	11 ± 2.2	12 ± 1.5	5 ± 0.0
3333.0	5 ± 2.0	4 ± 0.3	14 ± 3.5	9 ± 1.3	6 ± 0.9
10000.0	6 ± 3.3	1 ± 1.3 ^s	6 ± 3.8	10 ± 3.5	5 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			277 ± 9.0	197 ± 7.6	588 ± 22.8
Positive Control ⁵	745 ± 79.3	109 ± 8.7			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 2.0
100.0	5 ± 1.5
333.0	5 ± 0.6
1000.0	4 ± 0.3
3333.0	5 ± 1.8
10000.0	2 ± 1.7 ^s
Trial Summary	Negative
Positive Control ⁴	536 ± 34.9
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	13 ± 2.3	20 ± 0.7	29 ± 2.6	26 ± 3.5	25 ± 2.0
100.0	14 ± 1.2	19 ± 1.9	18 ± 1.8	21 ± 1.9	34 ± 1.9
333.0	21 ± 1.5	23 ± 1.2	26 ± 4.4	26 ± 3.5	30 ± 0.6
1000.0	14 ± 2.8	17 ± 0.7	22 ± 5.0	26 ± 4.4	29 ± 0.3
3333.0	10 ± 1.5	18 ± 1.2	25 ± 3.3	27 ± 0.9	29 ± 0.6
10000.0	1 ± 1.0	5 ± 0.9 ^s	3 ± 2.7 ^s	18 ± 0.7	8 ± 2.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			642 ± 35.6	556 ± 36.2	1323 ± 96.2
Positive Control ⁶	942 ± 48.3	793 ± 25.9			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	25 ± 0.3
100.0	18 ± 1.8
333.0	22 ± 1.3
1000.0	27 ± 0.0
3333.0	22 ± 3.3
10000.0	4 ± 2.3 ^s
Trial Summary	Negative
Positive Control ³	1385 ± 100.5
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 Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****