

Experiment Number: 192910

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Thiocarbanilide

CAS Number: 102-08-9

Date Report Requested: 09/14/2018

Time Report Requested: 02:14:39

NTP Study Number:

192910

Study Result:

Equivocal

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	86 ± 3.3	124 ± 15.0	113 ± 6.7	108 ± 1.8	102 ± 8.6
1.0	91 ± 3.2				
3.3					
33.3	113 ± 10.9	101 ± 1.2	101 ± 10.7	134 ± 4.7	111 ± 1.2
100.0	131 ± 10.1	113 ± 2.6	121 ± 6.6	140 ± 7.4	97 ± 2.5
333.3	142 ± 5.8	121 ± 3.0	122 ± 5.4	114 ± 9.3	75 ± 3.5
1000.0	154 ± 4.0 ^p	114 ± 4.9 ^p	134 ± 16.9	140 ± 14.5	82 ± 4.9
3333.3	99 ± 11.6 ^p	118 ± 5.2 ^p	130 ± 11.7 ^p	81 ± 3.7 ^p	83 ± 10.7 ^p
6666.7					
Trial Summary	Weakly Positive	Negative	Negative	Equivocal	Negative
Positive Control ²	533 ± 6.9	617 ± 21.7	461 ± 12.2	574 ± 21.1	
Positive Control ³					566 ± 25.3

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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	With 10% Hamster S9
Vehicle Control ¹	103 ± 12.2	99 ± 5.9	108 ± 11.7	109 ± 11.0	109 ± 4.4
1.0					
3.3					
33.3	110 ± 13.5	103 ± 8.3	157 ± 1.5	95 ± 4.0	119 ± 7.7
100.0	109 ± 10.9	98 ± 0.3	166 ± 11.8	96 ± 9.7	118 ± 7.2
333.3	98 ± 2.3	90 ± 3.7	157 ± 9.3	95 ± 4.3	106 ± 9.1
1000.0	80 ± 6.7 ^p	79 ± 7.3	129 ± 10.6 ^p	90 ± 11.6	91 ± 6.5
3333.3	89 ± 9.8 ^p	92 ± 1.9 ^p	126 ± 3.5 ^p	95 ± 0.6 ^p	94 ± 3.8 ^p
6666.7					
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²					
Positive Control ³	755 ± 33.5	1172 ± 81.3	442 ± 16.7	1540 ± 28.6	1692 ± 60.4

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	24 ± 2.9	15 ± 2.4	12 ± 3.2	24 ± 3.7	14 ± 1.2
2.5	24 ± 1.5				
33.3	39 ± 1.5	27 ± 5.2	Toxic	32 ± 3.8	11 ± 1.7
100.0	43 ± 7.4	34 ± 2.3	Toxic	21 ± 1.5	10 ± 2.8
333.3	52 ± 0.9	42 ± 1.7	30 ± 0.7	32 ± 3.0	10 ± 3.0
1000.0	61 ± 6.5	42 ± 6.1 ^P	36 ± 1.7	32 ± 2.9	12 ± 2.0
3333.3	41 ± 1.7 ^P	29 ± 3.8 ^P	34 ± 0.6 ^P	23 ± 4.1 ^P	10 ± 1.2 ^P
Trial Summary	Weakly Positive	Weakly Positive	Weakly Positive	Negative	Negative
Positive Control ²	353 ± 46.4	515 ± 4.9	409 ± 42.7	406 ± 25.2	
Positive Control ⁴					214 ± 15.9

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 1.3	14 ± 3.5	15 ± 1.7
2.5			
33.3	15 ± 1.3	15 ± 3.2	12 ± 1.7
100.0	12 ± 4.2	13 ± 2.1	17 ± 1.7
333.3	9 ± 2.2	12 ± 3.2	10 ± 1.0
1000.0	13 ± 1.9 ^p	11 ± 1.7	10 ± 1.8 ^p
3333.3	12 ± 1.5 ^p	12 ± 1.5 ^p	10 ± 1.2 ^p
Trial Summary	Negative	Negative	Negative
Positive Control ²			
Positive Control ⁴	197 ± 2.8	300 ± 40.3	303 ± 4.4

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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	6 ± 1.2	24 ± 2.3	16 ± 2.0	35 ± 5.2	17 ± 1.2
2.5	9 ± 3.0				
33.3	8 ± 1.5	12 ± 2.2	21 ± 1.5	32 ± 9.4	11 ± 2.9
100.0	9 ± 0.7	7 ± 1.0	19 ± 0.7	23 ± 6.7	13 ± 2.1
333.3	6 ± 1.5	9 ± 1.3	12 ± 2.3	17 ± 6.1	11 ± 1.2
1000.0	7 ± 0.6 ^p	8 ± 1.5 ^p	11 ± 1.8	15 ± 0.7 ^p	6 ± 0.3
3333.3	1 ± 0.7 ^s	5 ± 0.9 ^p	10 ± 0.7 ^p	14 ± 1.2 ^p	7 ± 0.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			52 ± 2.3	284 ± 7.2	132 ± 10.4
Positive Control ⁵	277 ± 25.9	136 ± 26.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	26 ± 4.8
2.5	
33.3	26 ± 1.9
100.0	18 ± 2.2
333.3	15 ± 0.6
1000.0	12 ± 1.5 ^p
3333.3	15 ± 3.3 ^p
Trial Summary	Negative
Positive Control ⁴	322 ± 36.7
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 4.8	24 ± 2.7	43 ± 1.2	37 ± 5.2	37 ± 5.8
5.0					
33.3	37 ± 3.5	39 ± 5.1	46 ± 9.5	30 ± 5.5	38 ± 3.2
100.0	31 ± 0.9	33 ± 2.6	37 ± 2.3	25 ± 2.6	44 ± 4.2
333.3	28 ± 5.5	30 ± 6.2	31 ± 3.8	29 ± 0.3	41 ± 1.8
1000.0	23 ± 5.7 ^P	29 ± 5.5	36 ± 5.5 ^P	26 ± 2.5	34 ± 2.8 ^P
3333.3	19 ± 2.3 ^P	29 ± 3.2 ^P	33 ± 1.9 ^P	32 ± 5.2 ^P	27 ± 2.0 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³		202 ± 10.3	534 ± 68.7	526 ± 83.9	474 ± 31.9
Positive Control ⁶	706 ± 14.6				

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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

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****