

Experiment Number: 580001

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Thiabendazole

CAS Number: 148-79-8

Date Report Requested: 09/14/2018

Time Report Requested: 11:49:40

NTP Study Number:

580001

Study Result:

Positive

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Test Compound: Thiabendazole
CAS Number: 148-79-8

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Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	121 ± 8.2	144 ± 2.0	159 ± 9.5
100.0	114 ± 8.7	155 ± 4.8	126 ± 2.0
333.0	121 ± 5.2	140 ± 6.7	180 ± 2.5
1000.0	109 ± 3.8	117 ± 9.5	155 ± 14.2
3333.0	71 ± 4.0 ^P	101 ± 8.7 ^P	118 ± 12.7 ^P
10000.0	78 ± 1.5 ^P	117 ± 3.8 ^P	151 ± 20.5 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ²			529 ± 8.4
Positive Control ³	620 ± 21.0		
Positive Control ⁴		392 ± 33.0	

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 3.1	25 ± 5.3	33 ± 3.5	24 ± 1.2	30 ± 4.1
100.0	14 ± 0.7	28 ± 0.9			33 ± 3.5
333.0	10 ± 3.0	22 ± 1.2			59 ± 4.2
666.0					68 ± 5.0
1000.0	13 ± 1.7	13 ± 1.5	36 ± 2.6	58 ± 3.7	78 ± 5.7
1666.0			30 ± 4.5 ^p	47 ± 4.4 ^p	80 ± 6.7 ^p
3333.0	7 ± 2.1 ^p	16 ± 3.8 ^p	31 ± 2.6 ^p	46 ± 7.2 ^p	87 ± 1.8 ^p
6666.0			58 ± 8.9 ^p	93 ± 1.5 ^p	130 ± 8.4 ^p
10000.0	10 ± 1.5 ^p	35 ± 4.8 ^p	54 ± 4.2 ^p	102 ± 10.6 ^p	143 ± 7.9 ^p
Trial Summary	Negative	Negative	Equivocal	Positive	Positive
Positive Control ⁵			1110 ± 15.0	769 ± 6.9	311 ± 4.0
Positive Control ²		115 ± 7.3			
Positive Control ⁶	645 ± 32.0				

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Test Compound: Thiabendazole

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	34 ± 2.5	25 ± 3.0	29 ± 1.9
100.0	41 ± 4.7		
333.0	42 ± 3.9	40 ± 4.4	
666.0			
1000.0	38 ± 0.7	43 ± 10.9	62 ± 3.7
1666.0		58 ± 5.2 ^p	43 ± 8.1 ^p
3333.0	41 ± 7.2 ^p	43 ± 5.5 ^p	41 ± 3.5 ^p
6666.0		111 ± 7.9 ^p	72 ± 6.2 ^p
10000.0	115 ± 13.1 ^p	127 ± 12.2 ^p	100 ± 8.9 ^p
Trial Summary	Equivocal	Positive	Positive
Positive Control ⁵			
Positive Control ²	251 ± 0.9	394 ± 7.6	332 ± 25.7
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: 1.0 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 0.5 ug/Plate 2-Aminoanthracene

6: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****