

Experiment Number: 064340

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Thiophanate M

CAS Number: 23564-05-8

Date Report Requested: 09/10/2018

Time Report Requested: 17:56:35

NTP Study Number:

064340

Study Result:

Equivocal

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	108 ± 3.8	148 ± 3.5	172 ± 6.1	140 ± 5.5	147 ± 6.0
100.0	122 ± 11.9	152 ± 10.9	146 ± 32.5	151 ± 7.6	129 ± 13.3
333.0	131 ± 8.1	154 ± 3.7	126 ± 8.5	146 ± 0.0	127 ± 7.8
1000.0	137 ± 3.4	122 ± 3.7	135 ± 7.3	152 ± 7.8	119 ± 3.8
3333.0	115 ± 7.0 ^P	134 ± 10.1 ^P	153 ± 13.9 ^P	131 ± 2.4 ^P	124 ± 4.4 ^P
10000.0	106 ± 9.7 ^P	141 ± 3.5 ^P	144 ± 8.7 ^P	138 ± 11.5 ^P	131 ± 7.5 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					930 ± 56.0
Positive Control ³			471 ± 17.0		
Positive Control ⁴	431 ± 5.5	428 ± 30.9			
Positive Control ⁵				621 ± 9.8	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	156 ± 4.2
100.0	153 ± 11.1
333.0	157 ± 13.0
1000.0	157 ± 10.1
3333.0	145 ± 9.5 ^p
10000.0	156 ± 6.8 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	731 ± 52.2
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	28 ± 4.0	26 ± 2.0	11 ± 1.8	14 ± 4.3	12 ± 1.8
100.0	17 ± 0.3	30 ± 3.2	11 ± 1.7	16 ± 2.2	11 ± 2.2
333.0	17 ± 0.3	23 ± 1.3	11 ± 2.2	13 ± 1.0	11 ± 1.9
1000.0	17 ± 0.7	16 ± 1.9	13 ± 2.3	14 ± 2.7	8 ± 0.9
3333.0	14 ± 1.9 ^P	13 ± 2.2 ^P	16 ± 1.9 ^P	10 ± 0.7 ^P	8 ± 2.0 ^P
10000.0	7 ± 0.7 ^P	12 ± 0.9 ^P	7 ± 1.7 ^P	12 ± 1.0 ^P	10 ± 0.3 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					203 ± 10.1
Positive Control ⁴	679 ± 11.1	585 ± 26.0			
Positive Control ⁵			195 ± 16.0		
Positive Control ⁶				186 ± 4.5	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.3
100.0	8 ± 0.6
333.0	7 ± 1.9
1000.0	8 ± 1.2
3333.0	5 ± 2.5 ^p
10000.0	6 ± 1.0 ^p
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	698 ± 29.8
Positive Control ⁶	

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	8 ± 0.7	9 ± 1.0	13 ± 2.3
100.0	7 ± 1.2	16 ± 0.7	16 ± 3.5
333.0	8 ± 0.7	13 ± 0.6	17 ± 1.0
1000.0	11 ± 2.3	15 ± 0.9	16 ± 5.2
3333.0	11 ± 2.3 ^P	16 ± 1.7 ^P	14 ± 3.5 ^P
10000.0	8 ± 2.3 ^P	20 ± 4.8 ^P	13 ± 2.7 ^P
Trial Summary	Negative	Equivocal	Negative
Positive Control ³			64 ± 3.8
Positive Control ⁵		49 ± 2.9	
Positive Control ⁷	742 ± 61.5		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	164 ± 9.6	126 ± 6.9	188 ± 9.5	187 ± 2.3	151 ± 8.5
100.0	185 ± 13.2	160 ± 10.1	177 ± 6.9	204 ± 2.0	174 ± 15.6
333.0	202 ± 7.1	168 ± 11.0	190 ± 3.8	185 ± 11.4	195 ± 3.3
1000.0	201 ± 5.5	160 ± 12.7	192 ± 5.3	205 ± 7.1	177 ± 3.0
3333.0	57 ± 6.3 ^x	171 ± 4.6 ^p	148 ± 8.5 ^p	190 ± 5.8 ^p	187 ± 7.2 ^p
10000.0	8 ± 0.6 ^x	94 ± 19.7 ^x	160 ± 19.0 ^p	161 ± 3.8 ^p	161 ± 13.9 ^p
Trial Summary	Equivocal	Equivocal	Negative	Negative	Equivocal
Positive Control ²					285 ± 14.7
Positive Control ³			289 ± 5.7		
Positive Control ⁵				355 ± 5.9	
Positive Control ⁷	588 ± 28.9	685 ± 40.5			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	163 ± 2.1
100.0	167 ± 5.0
333.0	188 ± 10.7
1000.0	180 ± 11.3
3333.0	147 ± 8.1 ^P
10000.0	124 ± 10.3 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	456 ± 20.5
Positive Control ⁵	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	20 ± 2.3	17 ± 0.9	30 ± 5.5	30 ± 0.7	36 ± 1.9
100.0	18 ± 3.8	25 ± 3.8	32 ± 4.8	36 ± 0.6	29 ± 0.9
333.0	13 ± 0.7	18 ± 2.2	31 ± 3.0	42 ± 2.3	34 ± 5.0
1000.0	16 ± 1.9	21 ± 1.7	34 ± 3.4	33 ± 1.5	33 ± 0.9
3333.0	9 ± 0.3 ^p	16 ± 2.6 ^p	30 ± 0.6 ^p	30 ± 1.2 ^p	33 ± 0.9 ^p
10000.0	9 ± 3.0 ^p	15 ± 1.9 ^p	35 ± 1.5 ^p	21 ± 2.6 ^p	36 ± 3.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					933 ± 29.6
Positive Control ³			355 ± 7.4	135 ± 6.9	
Positive Control ⁸	448 ± 41.4	488 ± 48.6			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	24 ± 3.2
100.0	23 ± 2.8
333.0	38 ± 3.8
1000.0	33 ± 2.3
3333.0	36 ± 2.1 ^P
10000.0	31 ± 4.3 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	528 ± 35.3
Positive Control ⁸	

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

x: Slight Toxicity and Precipitate

**** END OF REPORT ****