

Experiment Number: 129591

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

**G06: Ames Summary Data**

Test Compound: **Tetramethylthiouram disulfide**

CAS Number: 137-26-8

Date Report Requested: 09/12/2018

Time Report Requested: 07:37:23

**NTP Study Number:**

129591

**Study Result:**

Positive

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## G06: Ames Summary Data

Test Compound: Tetramethylthiouoram disulfide

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	95 ± 6.5	118 ± 2.8	92 ± 5.5	131 ± 7.9	127 ± 8.1
0.1	85 ± 2.0			150 ± 5.2	149 ± 14.8
0.3	81 ± 3.1			139 ± 5.1	153 ± 5.7
1.0	88 ± 6.9	89 ± 6.2	110 ± 9.1	172 ± 2.6	150 ± 0.3
3.0	90 ± 5.2	110 ± 10.3	109 ± 7.8	200 ± 5.8	201 ± 5.8
6.0		134 ± 6.5	144 ± 2.6	256 ± 9.3	248 ± 6.4
10.0	149 ± 13.9	164 ± 6.7	179 ± 15.8	285 ± 20.8	249 ± 9.8
16.0		159 ± 4.7	188 ± 8.7		
33.0	193 ± 27.2	124 ± 12.5	97 ± 9.5	326 ± 5.2	339 ± 9.5
66.0	62 ± 7.1	0 ± 0.0 <sup>s</sup>	0 ± 0.0 <sup>s</sup>	372 ± 45.3	435 ± 16.3
100.0					
333.0					
Trial Summary	Positive	Weakly Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>				482 ± 24.8	381 ± 19.5
Positive Control <sup>3</sup>					
Positive Control <sup>4</sup>	801 ± 20.9	1089 ± 43.1	981 ± 21.1		

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## Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	131 ± 5.5	124 ± 7.3	155 ± 8.9	105 ± 13.5	118 ± 6.1
0.1		113 ± 11.7	165 ± 9.2		
0.3	130 ± 6.1	101 ± 7.0	158 ± 12.2		
1.0	146 ± 2.3	134 ± 6.0	158 ± 6.3	116 ± 3.7	126 ± 7.8
3.0	188 ± 5.9	150 ± 0.9	168 ± 8.0	109 ± 3.5	113 ± 7.5
6.0		148 ± 5.8	185 ± 7.9		
10.0	265 ± 1.9	218 ± 7.7	272 ± 18.3	136 ± 15.9	143 ± 10.1
16.0					
33.0	333 ± 22.0	182 ± 8.1	296 ± 36.1	185 ± 10.8	197 ± 5.9
66.0	522 ± 5.2	188 ± 7.9	227 ± 4.2	290 ± 16.5	284 ± 29.3
100.0				369 ± 26.7	373 ± 11.8
333.0				459 ± 75.1	559 ± 50.7
Trial Summary	Positive	Weakly Positive	Weakly Positive	Positive	Positive
Positive Control <sup>2</sup>	387 ± 24.9			615 ± 37.0	630 ± 29.6
Positive Control <sup>3</sup>		497 ± 35.6	365 ± 21.2		
Positive Control <sup>4</sup>					

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## Strain: TA98

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	19 ± 4.2	25 ± 2.6	27 ± 4.4	26 ± 3.8	43 ± 3.5
0.1	16 ± 1.5	23 ± 2.8	23 ± 3.8	19 ± 0.3	25 ± 2.3
0.3	15 ± 1.8	25 ± 2.7	23 ± 4.2	23 ± 4.7	15 ± 1.2
1.0	16 ± 1.5	25 ± 5.9	19 ± 2.3	24 ± 3.3	16 ± 1.7
3.0	17 ± 0.9	27 ± 1.5	22 ± 3.5	21 ± 5.0	17 ± 1.0
6.0		29 ± 4.5	26 ± 5.2	31 ± 1.9	28 ± 6.2
10.0	23 ± 1.7	41 ± 7.2	36 ± 5.0	35 ± 8.0	56 ± 4.4
16.0					
33.0	14 ± 1.7	36 ± 4.6	31 ± 3.6	36 ± 5.0	34 ± 8.1
66.0	0 ± 0.0 <sup>s</sup>	36 ± 4.5	48 ± 6.1	36 ± 3.2	25 ± 2.7
100.0					
166.0					
333.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>5</sup>					
Positive Control <sup>2</sup>		614 ± 46.2	264 ± 22.2	160 ± 18.0	91 ± 14.0
Positive Control <sup>6</sup>	507 ± 12.5				

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## Strain: TA98

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	30 ± 4.1	25 ± 3.8	20 ± 3.5	18 ± 0.0	26 ± 3.0
0.1					
0.3					
1.0				20 ± 2.9	
3.0	32 ± 1.9	33 ± 2.6		16 ± 2.2	27 ± 3.5
6.0					
10.0	35 ± 2.0	31 ± 0.6	34 ± 3.5	20 ± 0.7	26 ± 4.2
16.0			35 ± 1.9		
33.0	46 ± 4.6	75 ± 3.7	54 ± 4.3	28 ± 3.8	35 ± 3.2
66.0	31 ± 16.0	63 ± 0.9	102 ± 7.3	24 ± 3.5	39 ± 0.9
100.0	30 ± 2.7	83 ± 1.5	98 ± 6.0	29 ± 5.0	42 ± 1.7
166.0	25 ± 2.3	77 ± 7.1	80 ± 4.3		68 ± 8.6
333.0	0 ± 0.0 <sup>s</sup>	23 ± 0.7		34 ± 7.0	51 ± 3.7
Trial Summary	Negative	Positive	Positive	Equivocal	Positive
Positive Control <sup>5</sup>	1233 ± 158.8	911 ± 82.5	850 ± 38.6		
Positive Control <sup>2</sup>				365 ± 14.9	524 ± 62.9
Positive Control <sup>6</sup>					

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	23 ± 1.9
0.1	
0.3	
1.0	
3.0	
6.0	
10.0	22 ± 2.2
16.0	25 ± 2.5
33.0	27 ± 2.1
66.0	38 ± 6.1
100.0	40 ± 3.5
166.0	52 ± 7.4
333.0	
Trial Summary	Positive
Positive Control <sup>5</sup>	
Positive Control <sup>2</sup>	383 ± 42.6
Positive Control <sup>6</sup>	

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**LEGEND**

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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: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 0.5 ug/Plate 2-Aminoanthracene

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

s: Slight Toxicity

**\*\* END OF REPORT \*\***