

Experiment Number: 748370

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Tetraethylthiuram disulfide

CAS Number: 97-77-8

Date Report Requested: 09/17/2018

Time Report Requested: 10:33:47

**NTP Study Number:**

748370

**Study Result:**

Negative

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Test Compound: Tetraethylthiuram disulfide

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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 <sup>1</sup>	151 ± 5.0	123 ± 3.8	133 ± 9.0	160 ± 6.9	144 ± 3.0
0.3	151 ± 5.2				
1.0	134 ± 4.3	154 ± 2.7			
3.0		128 ± 11.7	175 ± 12.2		177 ± 11.9
3.3	143 ± 8.0				
10.0	134 ± 10.7	151 ± 15.0	147 ± 9.0	168 ± 2.0	159 ± 1.3
33.0	139 ± 7.3	154 ± 12.0	169 ± 5.5	169 ± 10.4	143 ± 7.4
100.0		118 ± 10.5	169 ± 15.7	145 ± 8.1	156 ± 10.4
333.0			162 ± 6.1	162 ± 11.8	155 ± 4.0
1000.0				100 ± 19.2	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			448 ± 16.8	359 ± 8.4	1250 ± 16.3
Positive Control <sup>3</sup>	337 ± 6.0	261 ± 15.6			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	150 ± 6.3	163 ± 8.8
0.3		
1.0		
3.0		156 ± 4.1
3.3		
10.0	160 ± 6.3	143 ± 1.7
33.0	169 ± 8.0	151 ± 6.1
100.0	171 ± 6.7	143 ± 3.8
333.0	216 ± 7.9	165 ± 7.1
1000.0	26 ± 4.7	
Trial Summary	Equivocal	Negative
Positive Control <sup>2</sup>	681 ± 11.1	1796 ± 23.7
Positive Control <sup>3</sup>		

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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 <sup>1</sup>	17 ± 0.3	14 ± 1.5	34 ± 4.7	36 ± 2.5	36 ± 1.9
0.3	16 ± 5.5				
1.0	15 ± 3.2	18 ± 1.7			
3.0		13 ± 3.7	30 ± 2.0		29 ± 5.9
3.3	11 ± 3.5				
10.0	12 ± 3.2	13 ± 3.8	11 ± 4.0	36 ± 3.8	25 ± 7.0
33.0	16 ± 5.8	10 ± 1.8	23 ± 2.2	25 ± 0.3	21 ± 5.0
100.0		9 ± 0.0	15 ± 3.6	20 ± 0.0	17 ± 4.6
333.0			8 ± 3.3 <sup>s</sup>	22 ± 4.2	16 ± 1.7
1000.0				13 ± 2.6	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	Toxic	278 ± 3.5			
Positive Control <sup>4</sup>			331 ± 18.3	161 ± 4.6	423 ± 5.7

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	34 ± 1.9
0.3	
1.0	
3.0	
3.3	
10.0	24 ± 4.3
33.0	21 ± 3.2
100.0	16 ± 1.2
333.0	15 ± 4.4
1000.0	6 ± 3.1
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	356 ± 7.7

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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 <sup>1</sup>	7 ± 2.0	7 ± 2.6	10 ± 2.3	13 ± 1.9	10 ± 2.2
0.3	11 ± 2.9				
1.0	8 ± 2.6	8 ± 2.8			
3.0		8 ± 2.0	12 ± 3.1		7 ± 2.3
3.3	8 ± 0.9				
10.0	7 ± 1.2	6 ± 1.2	12 ± 1.9	10 ± 3.1	7 ± 0.9
33.0	8 ± 3.0	7 ± 2.7	12 ± 2.6	11 ± 2.3	9 ± 1.9
100.0		7 ± 0.9	9 ± 2.3	14 ± 1.2	7 ± 1.2
333.0			8 ± 2.6	7 ± 2.6	9 ± 4.5
1000.0				7 ± 3.6	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			164 ± 11.5	134 ± 14.2	437 ± 11.1
Positive Control <sup>5</sup>	244 ± 9.0	117 ± 11.9			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	6 ± 0.9
0.3	
1.0	
3.0	
3.3	
10.0	6 ± 1.2
33.0	7 ± 1.2
100.0	7 ± 0.7
333.0	8 ± 2.3
1000.0	5 ± 2.2
Trial Summary	Negative
Positive Control <sup>4</sup>	344 ± 12.5
Positive Control <sup>5</sup>	

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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 <sup>1</sup>	31 ± 4.9	21 ± 1.8	24 ± 1.9	37 ± 3.9	34 ± 8.7
0.3	23 ± 1.3				
1.0	21 ± 3.7	21 ± 3.4			
3.0		22 ± 2.1	39 ± 0.6		38 ± 5.0
3.3	21 ± 3.5				
10.0	22 ± 4.7	19 ± 2.8	34 ± 1.8	54 ± 18.6	40 ± 7.1
33.0	23 ± 1.9	16 ± 0.3	39 ± 1.7	58 ± 15.4	38 ± 4.5
100.0		13 ± 3.6	27 ± 13.6	39 ± 13.8	39 ± 2.5
333.0			28 ± 1.2	34 ± 3.2	23 ± 4.9
1000.0				21 ± 2.4	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			319 ± 30.7	239 ± 17.1	1137 ± 3.0
Positive Control <sup>6</sup>	918 ± 3.0	821 ± 18.2			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	36 ± 2.4
0.3	
1.0	
3.0	
3.3	
10.0	27 ± 0.7
33.0	38 ± 3.5
100.0	30 ± 0.3
333.0	16 ± 6.2
1000.0	18 ± 5.7
Trial Summary	Negative
Positive Control <sup>2</sup>	551 ± 44.2
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: 95% Ethanol

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

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 \*\***