

Experiment Number: **623970**

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

G06: Ames Summary Data

Test Compound: **1,1,3,3-Tetramethyl-2-thiourea**

CAS Number: **2782-91-4**

Date Report Requested: **09/10/2018**

Time Report Requested: **16:36:56**

NTP Study Number:

623970

Study Result:

Negative

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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 ¹	80 ± 3.8	93 ± 3.5	92 ± 3.2	133 ± 12.4	122 ± 9.7
100.0	90 ± 6.1	87 ± 0.6	111 ± 9.6	147 ± 5.6	104 ± 10.2
333.0	98 ± 4.3	91 ± 3.8	106 ± 5.3	148 ± 9.0	116 ± 6.7
1000.0	94 ± 2.3	98 ± 3.5	118 ± 7.0	132 ± 6.1	108 ± 6.6
3333.0	101 ± 2.2	94 ± 3.8	116 ± 6.1	139 ± 4.9	112 ± 0.9
10000.0	81 ± 2.3	78 ± 4.7	113 ± 14.4	106 ± 4.0	78 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			2463 ± 246.2	748 ± 93.1	2331 ± 94.6
Positive Control ³	1591 ± 37.8	1281 ± 43.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	170 ± 12.1
100.0	153 ± 10.3
333.0	150 ± 17.3
1000.0	168 ± 6.6
3333.0	141 ± 8.1
10000.0	124 ± 5.5
Trial Summary	Negative
Positive Control ²	1448 ± 150.5
Positive Control ³	

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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 ¹	4 ± 0.9	4 ± 1.2	4 ± 0.6	5 ± 1.2	5 ± 0.0
100.0	3 ± 0.6	5 ± 0.6	2 ± 0.6	8 ± 3.0	3 ± 0.9
333.0	4 ± 1.0	6 ± 2.1	3 ± 0.0	6 ± 0.9	5 ± 1.8
1000.0	3 ± 0.6	5 ± 0.9	1 ± 0.6	10 ± 2.1	5 ± 2.0
3333.0	2 ± 1.0	3 ± 0.7	1 ± 0.6	10 ± 2.3	4 ± 1.5
10000.0	2 ± 0.3	6 ± 0.9	2 ± 0.0	9 ± 3.2	3 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			194 ± 4.5	67 ± 7.7	250 ± 20.3
Positive Control ³	347 ± 32.5	521 ± 58.4			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.0
100.0	7 ± 1.2
333.0	7 ± 3.2
1000.0	5 ± 0.9
3333.0	7 ± 2.0
10000.0	8 ± 1.5
Trial Summary	Negative
Positive Control ⁴	186 ± 7.1
Positive Control ³	

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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	7 ± 0.7	5 ± 0.6	9 ± 2.7	8 ± 2.9	7 ± 0.9
100.0	7 ± 1.0	4 ± 1.2	5 ± 1.2	7 ± 2.0	8 ± 2.0
333.0	6 ± 1.5	6 ± 0.9	6 ± 1.2	8 ± 2.3	8 ± 0.7
1000.0	5 ± 1.8	5 ± 2.2	8 ± 2.2	6 ± 0.3	3 ± 0.9
3333.0	3 ± 0.9	4 ± 1.2	6 ± 0.7	7 ± 0.9	5 ± 1.3
10000.0	5 ± 0.7	Toxic	6 ± 2.5	8 ± 2.7	4 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			32 ± 8.3	128 ± 6.4	120 ± 38.0
Positive Control ⁵	217 ± 9.3	472 ± 81.9			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.3
100.0	8 ± 2.6
333.0	8 ± 2.8
1000.0	5 ± 0.9
3333.0	6 ± 0.9
10000.0	4 ± 0.9
Trial Summary	Negative
Positive Control ⁴	134 ± 12.3
Positive Control ⁵	

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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 ¹	16 ± 1.5	18 ± 3.0	16 ± 0.9	16 ± 2.0	21 ± 3.2
100.0	15 ± 1.5	14 ± 0.0	25 ± 2.6	19 ± 3.1	14 ± 0.3
333.0	9 ± 1.9	13 ± 1.0	21 ± 1.5	25 ± 3.2	13 ± 3.2
1000.0	11 ± 1.7	13 ± 1.7	28 ± 3.5	16 ± 1.0	16 ± 0.7
3333.0	15 ± 1.0	13 ± 1.2	18 ± 2.3	14 ± 2.5	17 ± 0.7
10000.0	12 ± 0.7	16 ± 0.9	16 ± 1.5	16 ± 2.0	18 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1730 ± 114.5	192 ± 3.5	1034 ± 99.8
Positive Control ⁶	226 ± 11.9	231 ± 27.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	17 ± 1.2
100.0	22 ± 2.6
333.0	17 ± 0.0
1000.0	20 ± 0.9
3333.0	17 ± 3.0
10000.0	25 ± 0.3
Trial Summary	Negative
Positive Control ²	712 ± 142.9
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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****