

Experiment Number: 603150

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: **Thenyldiamine hydrochloride**

CAS Number: 958-93-0

Date Report Requested: 09/15/2018

Time Report Requested: 00:30:18

NTP Study Number:

603150

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% Rat S9
Vehicle Control ¹	111 ± 8.2	97 ± 7.8	137 ± 9.5	104 ± 6.6	133 ± 12.4
100.0	113 ± 6.4	96 ± 1.9	146 ± 5.3	115 ± 7.2	
333.0	116 ± 4.0	107 ± 3.5	143 ± 4.7	132 ± 5.8	
1000.0	101 ± 2.0	100 ± 2.0	112 ± 17.7	122 ± 1.7	89 ± 9.6
1667.0					117 ± 20.7
3333.0	101 ± 4.6	101 ± 2.6	78 ± 17.7	133 ± 3.9	113 ± 19.4
6667.0					59 ± 8.5
10000.0	Toxic	90 ± 6.0	78 ± 1.9	142 ± 17.9	Toxic
Trial Summary	Negative	Negative	Negative	Weakly Positive	Negative
Positive Control ²			2010 ± 149.9	2784 ± 76.8	748 ± 93.1
Positive Control ³	1271 ± 30.6	1796 ± 10.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	160 ± 7.0	149 ± 9.5
100.0	127 ± 10.7	136 ± 6.8
333.0	112 ± 12.0	129 ± 2.4
1000.0	99 ± 5.9	110 ± 8.3
1667.0		
3333.0	78 ± 7.2	125 ± 9.0
6667.0		
10000.0	66 ± 8.7	99 ± 5.0
Trial Summary	Negative	Negative
Positive Control ²	1481 ± 170.6	1200 ± 61.1
Positive Control ³		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	18 ± 1.2	19 ± 1.9	7 ± 1.5	19 ± 1.8	30 ± 4.7
33.0		29 ± 1.5	6 ± 2.5		16 ± 0.9
100.0	15 ± 2.1	24 ± 1.5	5 ± 1.7	10 ± 1.0	15 ± 2.0
333.0	15 ± 1.7	28 ± 1.7	5 ± 0.9	16 ± 1.9	15 ± 0.7
1000.0	17 ± 2.8	23 ± 2.4	8 ± 2.9	15 ± 1.2	11 ± 0.6
3333.0	Toxic	22 ± 1.2	Toxic	17 ± 1.7	7 ± 2.7
10000.0	Toxic			5 ± 2.3	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				448 ± 11.9	227 ± 13.2
Positive Control ³	1296 ± 40.8	1256 ± 59.6	817 ± 17.2		

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	20 ± 1.2	25 ± 1.5
33.0		
100.0	15 ± 2.7	18 ± 2.6
333.0	16 ± 1.5	21 ± 2.8
1000.0	17 ± 4.6	16 ± 1.7
3333.0	11 ± 0.3	14 ± 0.3
10000.0	5 ± 0.9	7 ± 2.0
Trial Summary	Negative	Negative
Positive Control ⁴	302 ± 25.8	325 ± 30.8
Positive Control ³		

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	12 ± 0.9	10 ± 0.7	4 ± 1.0	18 ± 2.3	30 ± 2.2
33.0		15 ± 1.7	6 ± 1.8		21 ± 6.4
100.0	12 ± 1.9	14 ± 1.9	6 ± 1.5	11 ± 2.0	27 ± 7.5
333.0	11 ± 1.5	9 ± 0.6	6 ± 0.3	15 ± 4.7	18 ± 5.5
1000.0	8 ± 0.9	7 ± 0.9	6 ± 1.5	11 ± 1.7	23 ± 2.5
3333.0	Toxic	9 ± 0.3	Toxic	11 ± 2.3	20 ± 2.6
10000.0	0 ± 0.0			Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				169 ± 33.3	103 ± 3.0
Positive Control ⁵	803 ± 96.4	594 ± 509.6	690 ± 56.6		

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.9	15 ± 3.2	24 ± 1.8
33.0	5 ± 0.3		
100.0	8 ± 1.2	16 ± 1.7	24 ± 3.8
333.0	5 ± 1.8	14 ± 3.5	21 ± 3.3
1000.0	6 ± 0.7	13 ± 3.0	27 ± 3.1
3333.0	7 ± 1.2	12 ± 2.3	28 ± 4.5
10000.0		Toxic	15 ± 2.2
Trial Summary	Negative	Negative	Negative
Positive Control ⁴	263 ± 5.5	397 ± 29.6	135 ± 2.6
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	23 ± 1.3	38 ± 1.8	33 ± 4.5	54 ± 4.6	36 ± 2.1
100.0	28 ± 1.5	38 ± 2.6	38 ± 2.8	52 ± 5.1	35 ± 2.4
333.0	24 ± 3.2	36 ± 1.0	27 ± 4.7	45 ± 1.2	29 ± 1.2
1000.0	24 ± 2.3	31 ± 4.4	21 ± 2.5	44 ± 4.6	28 ± 6.5
3333.0	21 ± 2.0	33 ± 3.8	13 ± 1.2	41 ± 5.0	37 ± 3.5
10000.0	16 ± 1.5	19 ± 1.5	18 ± 2.6	32 ± 4.1	27 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			906 ± 89.2	2027 ± 25.2	787 ± 161.6
Positive Control ⁶	205 ± 6.7	199 ± 15.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	33 ± 5.7
100.0	46 ± 6.9
333.0	38 ± 4.7
1000.0	37 ± 4.2
3333.0	41 ± 1.9
10000.0	35 ± 7.3
Trial Summary	Negative
Positive Control ²	611 ± 50.7
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: 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 ****