

Experiment Number: 188622

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Polythiazide

CAS Number: 346-18-9

Date Report Requested: 09/14/2018

Time Report Requested: 01:13:40

NTP Study Number:

188622

Study Result:

Negative

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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	111 ± 3.7	230 ± 18.2	232 ± 4.1	121 ± 4.7	238 ± 0.9
10.0	105 ± 5.8	233 ± 16.4	227 ± 4.8	121 ± 3.4	259 ± 1.9
33.0	97 ± 3.5	234 ± 5.7	268 ± 6.0	104 ± 5.0	245 ± 6.7
100.0	102 ± 3.4	257 ± 16.0	257 ± 4.4	102 ± 3.8	265 ± 7.0
333.0	113 ± 4.3	234 ± 8.7	249 ± 5.3	115 ± 8.1	230 ± 16.3
1000.0	81 ± 3.0 ^s	72 ± 7.6 ^s	156 ± 13.1	99 ± 3.6	142 ± 20.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1276 ± 8.9
Positive Control ³	429 ± 8.3	445 ± 1.2			
Positive Control ⁴			1542 ± 19.1		
Positive Control ⁵					
Positive Control ⁶				1417 ± 46.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	113 ± 7.9
10.0	110 ± 3.0
33.0	108 ± 5.4
100.0	113 ± 3.5
333.0	119 ± 8.7
1000.0	111 ± 5.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	819 ± 54.1
Positive Control ⁶	

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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	25 ± 1.2	30 ± 5.8	13 ± 1.2	15 ± 2.4	11 ± 1.0
10.0	23 ± 0.7	31 ± 2.6	12 ± 0.0	13 ± 0.7	11 ± 2.4
33.0	18 ± 3.4	30 ± 1.7	11 ± 0.9	13 ± 1.3	13 ± 0.7
100.0	25 ± 0.0	25 ± 3.3	13 ± 1.9	11 ± 2.3	8 ± 2.4
333.0	21 ± 3.6	23 ± 3.6	10 ± 1.9	17 ± 0.3	12 ± 1.5
1000.0	23 ± 2.9 ^s	15 ± 0.9 ^s	10 ± 2.1	11 ± 0.6	7 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					83 ± 8.7
Positive Control ³	294 ± 2.3	318 ± 11.0			
Positive Control ⁵					
Positive Control ⁶			236 ± 11.7	271 ± 3.7	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 1.5
10.0	10 ± 2.7
33.0	11 ± 1.3
100.0	12 ± 2.3
333.0	10 ± 1.2
1000.0	11 ± 1.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	124 ± 11.9
Positive Control ⁶	

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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	105 ± 5.5	100 ± 9.3	126 ± 2.4	204 ± 3.0	104 ± 7.6
10.0	104 ± 6.3	90 ± 5.0	122 ± 0.9	187 ± 5.9	100 ± 3.8
33.0	113 ± 1.8	87 ± 1.7	122 ± 7.0	188 ± 3.2	120 ± 2.9
100.0	99 ± 3.7	96 ± 3.8	142 ± 4.4	189 ± 2.6	115 ± 6.7
333.0	110 ± 7.0	90 ± 4.0	148 ± 3.5	193 ± 4.6	129 ± 4.8
1000.0	61 ± 4.2 ^s	64 ± 2.3 ^s	84 ± 11.9 ^s	195 ± 17.3	108 ± 5.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					1320 ± 36.4
Positive Control ⁶			2136 ± 82.7		
Positive Control ⁷				1465 ± 23.5	
Positive Control ⁸	204 ± 11.3				
Positive Control ⁹		605 ± 85.5			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	132 ± 0.3
10.0	135 ± 6.0
33.0	141 ± 3.0
100.0	152 ± 3.4
333.0	135 ± 5.8
1000.0	152 ± 8.3
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	2158 ± 35.0
Positive Control ⁸	
Positive Control ⁹	

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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	22 ± 0.7	25 ± 3.6	37 ± 2.4	35 ± 1.5	31 ± 2.3
10.0	19 ± 0.3	28 ± 1.9	33 ± 2.3	28 ± 2.9	37 ± 1.3
33.0	18 ± 2.6	22 ± 0.9	38 ± 2.2	37 ± 3.8	34 ± 2.0
100.0	20 ± 1.2	19 ± 3.2	39 ± 3.5	36 ± 0.3	35 ± 2.0
333.0	16 ± 3.0	23 ± 1.2	40 ± 4.4	39 ± 3.2	35 ± 0.9
1000.0	19 ± 2.6 ^s	14 ± 2.3 ^s	34 ± 5.2	25 ± 4.4	38 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					376 ± 12.7
Positive Control ²			636 ± 20.7		
Positive Control ¹¹	355 ± 20.7	427 ± 9.9			
Positive Control ⁵				516 ± 12.9	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	35 ± 3.1
10.0	35 ± 1.5
33.0	34 ± 3.5
100.0	37 ± 5.0
333.0	42 ± 5.0
1000.0	39 ± 2.5
Trial Summary	Negative
Positive Control ¹⁰	
Positive Control ²	186 ± 13.3
Positive Control ¹¹	
Positive Control ⁵	

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 8.0 ug/Plate 9-Aminoacridine

9: 16.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****