

Experiment Number: 715548

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

G06: Ames Summary Data

Test Compound: **Hydrochlorothiazide**

CAS Number: 58-93-5

Date Report Requested: **09/11/2018**

Time Report Requested: **23:59:12**

NTP Study Number:

715548

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	156 ± 4.8	135 ± 2.2	153 ± 6.7	153 ± 6.3	154 ± 4.1
100.0	142 ± 3.8	126 ± 2.7	156 ± 6.1	149 ± 3.6	159 ± 7.0
333.0	132 ± 1.5	137 ± 4.2	140 ± 7.7	136 ± 3.9	158 ± 4.4
1000.0	139 ± 2.3	142 ± 7.5	135 ± 7.6	139 ± 0.9	161 ± 1.7
3333.0	132 ± 7.5	143 ± 6.4	143 ± 13.9	144 ± 11.1	169 ± 9.0
10000.0	111 ± 14.9	152 ± 1.7	150 ± 9.0	141 ± 8.4	200 ± 7.3
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					1111 ± 30.6
Positive Control ³			992 ± 8.5	675 ± 13.2	
Positive Control ⁴	1213 ± 44.1	1030 ± 13.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	126 ± 1.0
100.0	130 ± 12.8
333.0	118 ± 7.2
1000.0	117 ± 11.0
3333.0	126 ± 3.8
10000.0	141 ± 5.5
Trial Summary	Negative
Positive Control ²	838 ± 21.2
Positive Control ³	
Positive Control ⁴	

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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	30 ± 5.9	32 ± 3.2	14 ± 1.9	7 ± 1.5	15 ± 1.0
100.0	35 ± 3.2	28 ± 1.8	13 ± 1.5	11 ± 2.0	16 ± 1.8
333.0	26 ± 3.6	21 ± 2.7	15 ± 0.7	10 ± 1.0	15 ± 3.5
1000.0	20 ± 2.0	22 ± 2.6	12 ± 0.3	8 ± 1.7	13 ± 0.9
3333.0	23 ± 1.7	21 ± 4.7	10 ± 1.5	11 ± 0.6	11 ± 1.7
10000.0	14 ± 5.2	20 ± 1.2	13 ± 3.3	11 ± 1.3	15 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					87 ± 3.6
Positive Control ³			88 ± 4.6	58 ± 3.3	
Positive Control ⁴	871 ± 28.3	726 ± 22.2			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	13 ± 1.8
100.0	13 ± 3.2
333.0	10 ± 2.2
1000.0	10 ± 2.1
3333.0	12 ± 1.0
10000.0	11 ± 0.7
Trial Summary	Negative
Positive Control ²	66 ± 2.5
Positive Control ³	
Positive Control ⁴	

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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	4 ± 1.5	8 ± 1.8	7 ± 2.1	12 ± 1.8	11 ± 4.0
100.0	8 ± 1.2	6 ± 1.7	9 ± 2.0	10 ± 1.9	12 ± 1.7
333.0	6 ± 1.5	9 ± 1.5	8 ± 1.0	8 ± 2.3	14 ± 3.4
1000.0	7 ± 1.2	7 ± 0.6	6 ± 1.2	11 ± 1.7	10 ± 3.1
3333.0	8 ± 1.0	10 ± 0.9	11 ± 0.7	14 ± 0.6	14 ± 4.1
6667.0			7 ± 1.3		
10000.0	10 ± 1.5	19 ± 1.2	9 ± 3.8	15 ± 2.6	14 ± 0.9
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				86 ± 6.7	60 ± 7.7
Positive Control ⁵	600 ± 14.5	99 ± 19.5	195 ± 12.8		

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.3	8 ± 2.3
100.0	11 ± 3.2	9 ± 2.0
333.0	13 ± 1.7	11 ± 1.5
1000.0	9 ± 0.9	8 ± 0.9
3333.0	14 ± 1.7	13 ± 2.3
6667.0		
10000.0	12 ± 1.2	14 ± 3.2
Trial Summary	Negative	Negative
Positive Control ²	82 ± 5.5	72 ± 6.2
Positive Control ³		
Positive Control ⁵		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	15 ± 1.3	19 ± 1.3	19 ± 1.0	30 ± 1.2	31 ± 3.1
100.0	21 ± 0.9	17 ± 1.7	16 ± 0.6	34 ± 4.1	36 ± 0.7
333.0	18 ± 1.8	23 ± 2.8	25 ± 3.0	32 ± 1.2	37 ± 2.0
1000.0	25 ± 4.5	22 ± 2.3	21 ± 3.2	31 ± 5.2	40 ± 5.7
3333.0	24 ± 2.7	30 ± 4.4	24 ± 0.3	32 ± 2.7	35 ± 1.5
6667.0			31 ± 1.9		
10000.0	26 ± 1.7	39 ± 1.9	32 ± 3.1	34 ± 1.5	39 ± 4.6
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				891 ± 43.4	554 ± 18.9
Positive Control ⁶	1406 ± 9.0	870 ± 38.4	1270 ± 42.2		

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	29 ± 2.2	32 ± 4.1
100.0	28 ± 2.0	35 ± 1.2
333.0	32 ± 0.9	33 ± 0.7
1000.0	39 ± 2.5	37 ± 2.7
3333.0	36 ± 3.5	41 ± 2.1
6667.0		
10000.0	41 ± 0.9	38 ± 1.8
Trial Summary	Negative	Negative
Positive Control ²	1119 ± 39.4	800 ± 24.3
Positive Control ³		
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: Dimethyl Sulfoxide

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****