

Experiment Number: 120784

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Amiloride hydrochloride

CAS Number: 2016-88-8

Date Report Requested: 09/12/2018

Time Report Requested: 01:48:00

NTP Study Number:

120784

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	134 ± 11.3	147 ± 4.1	114 ± 21.0
100.0	134 ± 6.0	142 ± 7.8	129 ± 11.6
333.0	124 ± 5.5	155 ± 13.5	112 ± 2.7
1000.0	139 ± 2.0	135 ± 2.4	161 ± 1.2
3333.0	134 ± 2.3 ^P	142 ± 8.9 ^P	133 ± 4.3 ^P
10000.0	112 ± 4.9 ^P	141 ± 13.2 ^P	135 ± 1.5 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ²			768 ± 28.6
Positive Control ³	431 ± 5.5		
Positive Control ⁴		621 ± 9.8	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	30 ± 4.9	18 ± 4.7	12 ± 0.9
100.0	32 ± 5.0	18 ± 3.7	10 ± 2.0
333.0	31 ± 3.8	13 ± 0.6	11 ± 1.2
1000.0	25 ± 4.2	18 ± 0.9	11 ± 0.3
3333.0	33 ± 1.3 ^P	14 ± 2.4 ^P	8 ± 1.2 ^P
10000.0	34 ± 6.9 ^P	9 ± 0.3 ^P	9 ± 1.2 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ³	679 ± 11.1		
Positive Control ⁴			698 ± 29.8
Positive Control ⁵		186 ± 4.5	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 30% Rat S9
Vehicle Control ¹	12 ± 0.7	13 ± 0.3	9 ± 2.1	7 ± 0.7	14 ± 2.6
33.0		11 ± 2.3			
100.0	10 ± 1.5	10 ± 2.7	9 ± 1.0	12 ± 0.7	11 ± 0.3
166.0		13 ± 0.3			
333.0	126 ± 14.0	16 ± 2.0	11 ± 1.8	12 ± 1.5	14 ± 2.6
666.0			15 ± 6.4		
1000.0	283 ± 14.2	66 ± 11.8	24 ± 2.3	71 ± 5.8	29 ± 3.5
1666.0			38 ± 1.5		
3333.0	387 ± 30.0 ^P			180 ± 8.4 ^P	142 ± 14.5 ^P
10000.0	231 ± 49.5 ^P			116 ± 18.2 ^P	187 ± 14.2 ^P
Trial Summary	Positive	Equivocal	Positive	Positive	Positive
Positive Control ²					
Positive Control ⁴					49 ± 2.9
Positive Control ⁶	742 ± 61.5	312 ± 4.9	264 ± 27.2	864 ± 40.3	

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Strain: TA1537

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	6 ± 2.6	7 ± 1.7	11 ± 2.7	13 ± 1.2	8 ± 0.7
33.0					
100.0			11 ± 1.8		
166.0					
333.0	10 ± 2.2	9 ± 2.2	13 ± 2.7	12 ± 1.9	13 ± 1.9
666.0					
1000.0	10 ± 1.5	15 ± 1.3	31 ± 2.3	20 ± 6.9	37 ± 10.5
1666.0	22 ± 1.2	29 ± 2.7		24 ± 1.5	48 ± 16.5
3333.0	42 ± 2.7 ^P	40 ± 3.8 ^P	123 ± 10.0 ^P	47 ± 4.3 ^P	59 ± 7.1 ^P
10000.0	65 ± 3.2 ^P	59 ± 8.7 ^P	121 ± 4.2 ^P	63 ± 7.7 ^P	92 ± 18.6 ^P
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			64 ± 3.8	48 ± 1.6	52 ± 1.5
Positive Control ⁴	37 ± 0.3	61 ± 1.7			
Positive Control ⁶					

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	143 ± 15.4	142 ± 4.7	184 ± 7.2	193 ± 5.2	192 ± 10.8
100.0	162 ± 1.5	154 ± 2.6	188 ± 7.0	175 ± 6.9	212 ± 1.8
333.0	186 ± 7.0	146 ± 3.0	194 ± 9.6	179 ± 4.0	208 ± 2.8
1000.0	235 ± 8.3	149 ± 6.9	196 ± 4.9	209 ± 11.5	228 ± 9.0
3333.0	257 ± 10.3 ^p	157 ± 12.2 ^p	202 ± 7.0 ^p	208 ± 2.8 ^p	237 ± 12.9 ^p
10000.0	186 ± 15.5 ^p	160 ± 13.9 ^p	194 ± 7.1 ^p	221 ± 9.0 ^p	251 ± 40.0 ^p
Trial Summary	Weakly Positive	Negative	Negative	Negative	Equivocal
Positive Control ⁷					
Positive Control ²			478 ± 39.0	387 ± 9.0	
Positive Control ⁴					355 ± 5.9
Positive Control ⁶	588 ± 28.9	867 ± 57.4			

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	208 ± 7.3	153 ± 8.1	143 ± 13.8	160 ± 6.2	180 ± 14.0
100.0	206 ± 2.0	149 ± 7.2	169 ± 17.3	164 ± 10.4	173 ± 20.3
333.0	208 ± 10.4	155 ± 9.9	177 ± 13.6	178 ± 4.7	190 ± 5.6
1000.0	202 ± 9.4	159 ± 2.6	177 ± 7.1	184 ± 2.6	180 ± 7.4
3333.0	235 ± 7.9 ^P	164 ± 8.5 ^P	213 ± 7.3 ^P	184 ± 9.0 ^P	204 ± 15.9 ^P
10000.0	217 ± 13.6 ^P	188 ± 6.9 ^P	208 ± 6.7 ^P	257 ± 25.8 ^P	212 ± 25.2 ^P
Trial Summary	Negative	Negative	Equivocal	Equivocal	Negative
Positive Control ⁷		691 ± 32.4	762 ± 41.7		
Positive Control ²				456 ± 20.5	422 ± 18.1
Positive Control ⁴	468 ± 32.3				
Positive Control ⁶					

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	17 ± 2.3	37 ± 5.5	30 ± 6.9
100.0	16 ± 0.7	51 ± 1.2	30 ± 1.7
333.0	18 ± 1.2	38 ± 3.4	24 ± 1.7
1000.0	19 ± 1.8	27 ± 3.5	26 ± 5.9
3333.0	10 ± 0.7 ^P	17 ± 2.1 ^P	34 ± 3.8 ^P
10000.0	17 ± 3.0 ^P	18 ± 2.1 ^P	37 ± 3.8 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ²		140 ± 9.3	536 ± 66.4
Positive Control ⁸	448 ± 41.4		

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 0.5 ug/Plate 2-Aminoanthracene

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****