

Experiment Number: 543950

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Chlorpheniramine maleate

CAS Number: 113-92-8

Date Report Requested: 09/13/2018

Time Report Requested: 17:04:17

NTP Study Number:

543950

Study Result:

Negative

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Test Compound: Chlorpheniramine maleate
CAS Number: 113-92-8

Date Report Requested: 09/13/2018

Time Report Requested: 17:04:17

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	117 ± 4.7		115 ± 5.0	121 ± 4.0	
Vehicle Control ²		128 ± 7.5			152 ± 3.9
100.0	104 ± 8.6	166 ± 9.0		93 ± 2.2	163 ± 4.7
333.0	124 ± 3.7	137 ± 7.4	138 ± 20.4	118 ± 8.4	150 ± 8.3
666.0			121 ± 2.7		
1000.0	126 ± 13.3	142 ± 10.0	106 ± 3.0	116 ± 10.5	151 ± 10.3
1666.0			96 ± 4.5		
3333.0	22 ± 22.0 ^s	127 ± 8.7	0 ± 0.0 ^s	89 ± 10.0	148 ± 5.1
10000.0	0 ± 0.0 ^s	0 ± 0.0 ^s		0 ± 0.0 ^s	0 ± 0.0 ^s
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ³	339 ± 16.0	373 ± 13.2	242 ± 6.2		
Positive Control ⁴				519 ± 18.3	604 ± 28.0

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	143 ± 6.3	125 ± 0.9		129 ± 3.8
Vehicle Control ²			149 ± 7.5	
100.0		132 ± 13.4	147 ± 7.9	
333.0	120 ± 12.1	124 ± 7.2	163 ± 5.2	119 ± 13.9
666.0	127 ± 13.5			121 ± 12.4
1000.0	127 ± 4.0	108 ± 8.1	170 ± 9.7	114 ± 12.9
1666.0	120 ± 10.0			110 ± 13.1
3333.0	98 ± 8.4 ^s	79 ± 10.8	152 ± 15.3	75 ± 2.8 ^s
10000.0		0 ± 0.0 ^s	13 ± 13.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ³				
Positive Control ⁴	441 ± 3.7	890 ± 4.8	1645 ± 44.7	775 ± 83.4

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Test Compound: Chlorpheniramine maleate
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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	22 ± 5.2		34 ± 6.4	9 ± 1.3	11 ± 1.5
Vehicle Control ²		34 ± 3.3			
100.0	30 ± 3.4	32 ± 4.0	29 ± 1.7		8 ± 0.6
333.0	34 ± 4.6	39 ± 2.8	22 ± 1.0	10 ± 0.9	7 ± 1.0
666.0				10 ± 1.5	
1000.0	40 ± 1.5	56 ± 7.1	38 ± 5.8	8 ± 2.0	9 ± 2.7
1666.0				7 ± 2.6	
3333.0	23 ± 4.0	46 ± 17.3	46 ± 2.9	1 ± 0.7 ^s	5 ± 2.3
10000.0	0 ± 0.0 ^s	0 ± 0.0 ^s	0 ± 0.0 ^s		0 ± 0.0 ^s
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ³	217 ± 23.2	378 ± 29.2	467 ± 5.2	164 ± 6.7	
Positive Control ⁵					195 ± 12.0

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 Test Compound: Chlorpheniramine maleate
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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹		7 ± 0.6	12 ± 2.2		7 ± 0.7
Vehicle Control ²	10 ± 3.7			13 ± 0.9	
100.0	11 ± 2.8		9 ± 4.0	10 ± 1.7	
333.0	11 ± 1.2	9 ± 4.4	13 ± 1.3	10 ± 1.0	5 ± 1.5
666.0		9 ± 2.9			6 ± 1.7
1000.0	9 ± 1.5	3 ± 0.7	9 ± 3.0	11 ± 2.6	7 ± 2.3
1666.0		6 ± 0.3			5 ± 0.6
3333.0	7 ± 3.0	2 ± 0.3 ^s	7 ± 1.2	6 ± 1.8	4 ± 0.3
10000.0	0 ± 0.0 ^s		0 ± 0.0 ^s	1 ± 0.7 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					
Positive Control ⁵	187 ± 8.8	103 ± 1.5	382 ± 48.0	408 ± 7.8	267 ± 6.6

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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 ²		7 ± 2.9			5 ± 0.3
Vehicle Control ¹	5 ± 1.2		6 ± 0.6	10 ± 2.5	
100.0	5 ± 1.0	9 ± 2.7		6 ± 0.3	6 ± 1.8
333.0	6 ± 1.7	10 ± 2.0	3 ± 0.7	9 ± 1.8	10 ± 2.2
666.0			3 ± 0.9		
1000.0	9 ± 2.0	12 ± 1.9	4 ± 0.6	8 ± 2.6	8 ± 2.3
1666.0			5 ± 1.2		
3333.0	6 ± 3.5	5 ± 1.2	1 ± 0.0 ^s	10 ± 2.3	9 ± 1.7
10000.0	0 ± 0.0 ^s	0 ± 0.0 ^s		0 ± 0.0 ^s	2 ± 1.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁵				155 ± 13.6	199 ± 5.5
Positive Control ⁶	120 ± 4.9	141 ± 1.9	283 ± 53.3		

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ²			9 ± 1.7	
Vehicle Control ¹	6 ± 0.9	7 ± 1.7		3 ± 0.3
100.0		7 ± 0.9	8 ± 0.7	
333.0	8 ± 1.0	9 ± 1.5	6 ± 0.9	5 ± 1.5
666.0	7 ± 0.9			7 ± 0.6
1000.0	6 ± 1.5	5 ± 1.2	10 ± 2.1	5 ± 1.5
1666.0	7 ± 1.5			5 ± 2.1
3333.0	2 ± 0.9 ^s	4 ± 0.9	6 ± 0.9	6 ± 1.2
10000.0		0 ± 0.0 ^s	3 ± 1.5 ^s	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁵	96 ± 8.3	284 ± 7.5	552 ± 11.7	341 ± 3.0
Positive Control ⁶				

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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 ²		21 ± 3.2			30 ± 1.2
Vehicle Control ¹	19 ± 3.2		14 ± 0.7	29 ± 1.9	
100.0	17 ± 1.2	24 ± 3.7		21 ± 2.9	31 ± 3.2
333.0	23 ± 2.7	19 ± 0.7	13 ± 0.6	30 ± 0.0	31 ± 2.4
666.0			13 ± 1.8		
1000.0	18 ± 1.2	21 ± 3.8	19 ± 2.6	26 ± 3.5	26 ± 1.9
1666.0			15 ± 0.9		
3333.0	19 ± 0.9	19 ± 0.9	0 ± 0.0 ^s	34 ± 3.8	29 ± 2.0
10000.0	0 ± 0.0 ^s	0 ± 0.0 ^s		12 ± 3.8	0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				327 ± 10.4	331 ± 15.3
Positive Control ⁷	346 ± 2.3	346 ± 2.5	554 ± 21.2		

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ²			31 ± 4.4	
Vehicle Control ¹	28 ± 1.8	30 ± 3.2		18 ± 1.2
100.0		30 ± 5.3	29 ± 5.0	
333.0	29 ± 4.6	27 ± 3.2	29 ± 6.1	25 ± 4.2
666.0	27 ± 1.2			24 ± 3.2
1000.0	26 ± 3.5	34 ± 3.1	29 ± 0.9	26 ± 4.3
1666.0	24 ± 1.5			26 ± 1.9
3333.0	14 ± 1.2 ^s	38 ± 0.7	32 ± 7.2	24 ± 3.5
10000.0		12 ± 3.0	0 ± 0.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴	344 ± 19.7	1148 ± 71.8	1221 ± 50.9	608 ± 27.5
Positive Control ⁷				

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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: Vehicle Control: Dimethyl Sulfoxide

3: 1.0 ug/Plate Sodium Azide

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****