

Experiment Number: A73195

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Curcumin

CAS Number: 458-37-7

Date Report Requested: 09/17/2018

Time Report Requested: 18:59:24

NTP Study Number:

A73195

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	108 ± 8.7	116 ± 4.0	137 ± 4.7	112 ± 3.1	116 ± 5.2
10.0	110 ± 4.5	134 ± 33.2	123 ± 15.9	117 ± 8.7	102 ± 8.2
33.0	114 ± 5.9	113 ± 2.6	116 ± 5.4	116 ± 6.4	125 ± 3.5
100.0	126 ± 10.7	112 ± 2.7	105 ± 9.3	107 ± 2.6	102 ± 2.7
333.0	120 ± 2.2	108 ± 0.3	110 ± 0.6	120 ± 5.9	101 ± 5.2
1000.0	82 ± 16.3 ^x	109 ± 5.0 ^x	44 ± 11.4 ^x	57 ± 18.2 ^x	67 ± 9.0 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					667 ± 14.8
Positive Control ³			623 ± 11.2		
Positive Control ⁴	856 ± 17.6	890 ± 12.1			
Positive Control ⁵				636 ± 19.0	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	119 ± 12.4
10.0	119 ± 5.8
33.0	115 ± 8.7
100.0	113 ± 16.8
333.0	116 ± 9.0
1000.0	79 ± 7.3 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ³	693 ± 14.5
Positive Control ⁴	
Positive Control ⁵	

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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	15 ± 4.0	7 ± 1.2	8 ± 1.2	14 ± 2.1	9 ± 3.3
10.0	17 ± 1.5	8 ± 1.0	12 ± 2.3	13 ± 1.3	14 ± 1.2
33.0	14 ± 2.4	7 ± 1.0	11 ± 2.0	16 ± 1.2	8 ± 2.0
100.0	14 ± 3.0	8 ± 0.6	10 ± 1.3	9 ± 0.6	14 ± 2.6
333.0	15 ± 1.9	8 ± 1.0	8 ± 2.1	13 ± 2.2	8 ± 0.9
1000.0	14 ± 1.2 ^x	7 ± 0.6 ^x	7 ± 0.6 ^x	11 ± 2.0 ^x	6 ± 1.3 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					99 ± 7.9
Positive Control ⁴	917 ± 12.5	909 ± 32.6			
Positive Control ⁵			113 ± 9.2		
Positive Control ⁶				118 ± 5.2	

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Test Compound: Curcumin
CAS Number: 458-37-7

Date Report Requested: 09/17/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 2.4
10.0	13 ± 2.2
33.0	14 ± 2.3
100.0	11 ± 1.2
333.0	11 ± 1.2
1000.0	13 ± 2.0 ^x
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	137 ± 5.4
Positive Control ⁶	

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Date Report Requested: 09/17/2018

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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	161 ± 3.6	133 ± 4.4	168 ± 13.7	198 ± 16.0	129 ± 10.8
10.0	159 ± 12.8	133 ± 2.7	174 ± 7.0	208 ± 4.6	138 ± 4.0
33.0	161 ± 2.5	115 ± 7.7	136 ± 10.5	204 ± 7.9	134 ± 6.7
100.0	163 ± 7.8	104 ± 10.4	131 ± 1.3	157 ± 4.5	117 ± 5.4
333.0	143 ± 14.3	109 ± 6.0	123 ± 4.9	167 ± 9.0	123 ± 7.2
1000.0	135 ± 11.5 ^x	90 ± 3.2 ^x	101 ± 7.4 ^x	168 ± 23.7 ^x	127 ± 9.9 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					619 ± 20.2
Positive Control ³			524 ± 36.5		
Positive Control ⁵				660 ± 9.7	
Positive Control ⁷	667 ± 15.9	555 ± 20.3			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	180 ± 14.0
10.0	199 ± 1.3
33.0	195 ± 5.8
100.0	196 ± 4.7
333.0	209 ± 11.0
1000.0	180 ± 13.6 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ³	710 ± 5.5
Positive Control ⁵	
Positive Control ⁷	

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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	18 ± 1.7	18 ± 2.0	23 ± 1.2	24 ± 2.0	25 ± 2.4
10.0	19 ± 3.3	20 ± 1.7	24 ± 2.0	24 ± 1.5	24 ± 3.5
33.0	20 ± 6.4	15 ± 1.0	28 ± 3.0	23 ± 1.7	26 ± 2.8
100.0	18 ± 2.2	18 ± 3.5	21 ± 1.0	24 ± 3.5	21 ± 2.4
333.0	22 ± 0.3	16 ± 1.8	24 ± 2.2	25 ± 1.9	20 ± 1.2
1000.0	22 ± 2.9 ^x	14 ± 2.8 ^x	220 ± 200.0 ^x	29 ± 2.3 ^x	15 ± 0.9 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					486 ± 2.9
Positive Control ³			416 ± 19.9		
Positive Control ⁸	424 ± 5.1	355 ± 20.3			
Positive Control ⁵				350 ± 18.2	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	27 ± 4.1
10.0	34 ± 2.5
33.0	27 ± 1.2
100.0	30 ± 7.9
333.0	28 ± 2.3
1000.0	29 ± 1.5 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ³	413 ± 7.5
Positive Control ⁸	
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: 1.0 ug/Plate 2-Aminoanthracene

3: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

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

x: Slight Toxicity and Precipitate

**** END OF REPORT ****