

Experiment Number: 298252

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Isoeugenol

CAS Number: 97-54-1

Date Report Requested: 09/11/2018

Time Report Requested: 21:44:10

NTP Study Number:

298252

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	137 ± 9.2	165 ± 5.2	151 ± 1.5	134 ± 4.8	162 ± 6.8
3.3	142 ± 7.3	143 ± 2.4			
10.0	146 ± 0.9	148 ± 10.9	151 ± 10.5	130 ± 0.6	159 ± 2.2
33.0	142 ± 1.8	147 ± 7.0	147 ± 11.3	121 ± 7.2	155 ± 1.7
100.0	147 ± 2.5	161 ± 2.9	140 ± 3.5	124 ± 5.0	137 ± 4.2
250.0		145 ± 8.6 ^s			
333.0	Toxic		135 ± 5.1	122 ± 7.8	131 ± 4.5
800.0				Toxic	
1000.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1415 ± 49.5
Positive Control ³			1019 ± 55.5	1308 ± 16.4	
Positive Control ⁴	1384 ± 43.8	1460 ± 36.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	156 ± 13.0
3.3	
10.0	167 ± 11.4
33.0	150 ± 3.2
100.0	165 ± 4.5
250.0	
333.0	155 ± 3.2
800.0	Toxic
1000.0	
Trial Summary	Negative
Positive Control ²	974 ± 16.1
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	22 ± 0.6	45 ± 3.5	10 ± 2.7	11 ± 1.5	14 ± 2.2
3.3	22 ± 4.2	35 ± 4.4			
10.0	21 ± 2.3	39 ± 0.9	9 ± 1.8	12 ± 1.9	9 ± 0.6
33.0	17 ± 4.9	42 ± 1.3	14 ± 3.0	7 ± 1.2	13 ± 0.9
100.0	17 ± 3.1	35 ± 3.4	8 ± 1.0	9 ± 1.8	10 ± 3.0
250.0		22 ± 0.6 ^s			
333.0	Toxic		8 ± 0.9	11 ± 2.6	10 ± 1.2
800.0				Toxic	
1000.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					104 ± 2.5
Positive Control ³			64 ± 1.5	107 ± 5.8	
Positive Control ⁴	1029 ± 45.3	1347 ± 43.3			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	13 ± 0.6
3.3	
10.0	13 ± 2.7
33.0	10 ± 2.2
100.0	12 ± 2.6
250.0	
333.0	9 ± 0.6
800.0	Toxic
1000.0	
Trial Summary	Negative
Positive Control ²	78 ± 3.3
Positive Control ³	
Positive Control ⁴	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.9	8 ± 2.2	9 ± 1.5	8 ± 0.6	7 ± 1.7
3.3	5 ± 1.0	6 ± 1.5			
10.0	4 ± 2.1	9 ± 1.2	5 ± 1.2	7 ± 0.9	7 ± 0.9
33.0	4 ± 1.3	8 ± 3.1	9 ± 1.3	8 ± 1.5	9 ± 0.6
100.0	6 ± 1.2	5 ± 0.6	6 ± 0.3	8 ± 2.5	10 ± 0.6
250.0		4 ± 0.9 ^s			
333.0	Toxic		9 ± 0.6	6 ± 1.5	9 ± 0.7
800.0				Toxic	
1000.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					117 ± 6.9
Positive Control ³			93 ± 7.8	105 ± 5.5	
Positive Control ⁵	274 ± 79.7	559 ± 19.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.1
3.3	
10.0	10 ± 1.5
33.0	8 ± 1.5
100.0	7 ± 0.9
250.0	
333.0	9 ± 1.7
800.0	Toxic
1000.0	
Trial Summary	Negative
Positive Control ²	74 ± 3.1
Positive Control ³	
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	20 ± 4.1	18 ± 1.7	23 ± 4.2	35 ± 0.9	20 ± 1.8
3.3	14 ± 2.1	20 ± 2.4			
10.0	14 ± 1.2	16 ± 3.1	25 ± 2.4	26 ± 1.2	20 ± 1.5
33.0	16 ± 0.9	16 ± 1.2	23 ± 0.9	34 ± 4.1	24 ± 1.0
100.0	15 ± 4.0	17 ± 1.2	26 ± 1.2	27 ± 3.8	22 ± 0.7
250.0		15 ± 2.5 ^s			
333.0	12 ± 2.5 ^s		23 ± 0.6	27 ± 3.5	16 ± 2.3
800.0				Toxic	
1000.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1008 ± 32.9
Positive Control ³			689 ± 12.6	1220 ± 47.3	
Positive Control ⁶	1452 ± 41.0	1671 ± 19.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	33 ± 1.2
3.3	
10.0	33 ± 3.4
33.0	28 ± 1.2
100.0	26 ± 3.8
250.0	
333.0	33 ± 2.3
800.0	Toxic
1000.0	
Trial Summary	Negative
Positive Control ²	1079 ± 29.7
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

s: Slight Toxicity

** END OF REPORT **