

Experiment Number: 816373

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: trans-Cinnamaldehyde

CAS Number: 14371-10-9

Date Report Requested: 09/15/2018

Time Report Requested: 14:19:02

NTP Study Number:

816373

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	130 ± 9.9	140 ± 6.7	179 ± 31.0	154 ± 19.9	157 ± 4.2
1.0		140 ± 9.3		127 ± 4.0	
3.3	133 ± 8.2	136 ± 4.6	171 ± 19.4	132 ± 8.1	180 ± 0.7
10.0	127 ± 7.9	132 ± 2.3	144 ± 5.3	112 ± 14.0	210 ± 9.0
33.0	99 ± 3.3	114 ± 14.8	132 ± 10.8	111 ± 15.6	144 ± 3.2
100.0	102 ± 7.9	99 ± 10.7	143 ± 4.6	105 ± 15.2	158 ± 8.7
333.0	2 ± 0.9		121 ± 3.8		14 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1236 ± 19.6	940 ± 117.9	1634 ± 39.3
Positive Control ³	745 ± 9.9	776 ± 27.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	157 ± 7.5
1.0	178 ± 4.7
3.3	178 ± 2.2
10.0	170 ± 20.0
33.0	137 ± 5.5
100.0	156 ± 10.4
333.0	
Trial Summary	Negative
Positive Control ²	2122 ± 27.4
Positive Control ³	

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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	10 ± 1.3	7 ± 1.5	10 ± 1.2	7 ± 1.8	12 ± 1.7
1.0		6 ± 0.6		6 ± 0.0	
3.3	7 ± 1.8	6 ± 1.3	10 ± 0.6	11 ± 1.9	10 ± 0.7
10.0	5 ± 0.0	5 ± 0.6	11 ± 1.7	10 ± 1.5	10 ± 0.9
33.0	10 ± 0.7	5 ± 1.7	7 ± 1.5	5 ± 0.5	12 ± 2.1
100.0	8 ± 1.2	5 ± 0.7	8 ± 0.0	6 ± 0.6	11 ± 1.3
333.0	4 ± 0.6		11 ± 3.5		4 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			106 ± 5.6	48 ± 2.6	111 ± 7.5
Positive Control ³	728 ± 9.6	703 ± 23.9			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.5
1.0	7 ± 1.5
3.3	9 ± 0.3
10.0	6 ± 1.2
33.0	8 ± 1.5
100.0	10 ± 0.6
333.0	
Trial Summary	Negative
Positive Control ²	108 ± 3.4
Positive Control ³	

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Test Compound: trans-Cinnamaldehyde

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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	7 ± 0.7	8 ± 0.9	11 ± 0.7	12 ± 1.2	10 ± 0.3
1.0		9 ± 2.0		10 ± 2.4	
3.3	8 ± 0.7	9 ± 1.0	11 ± 1.8	13 ± 2.3	9 ± 2.0
10.0	6 ± 0.3	9 ± 2.2	12 ± 0.9	13 ± 1.5	11 ± 0.9
33.0	7 ± 0.7	7 ± 1.3	10 ± 0.3	9 ± 1.0	13 ± 2.9
100.0	10 ± 0.6	8 ± 2.3	8 ± 1.2	8 ± 0.9	8 ± 0.0
333.0	4 ± 1.5		12 ± 3.5		8 ± 2.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			79 ± 8.8	52 ± 2.5	108 ± 14.6
Positive Control ⁴	534 ± 6.7	483 ± 60.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 1.0
1.0	13 ± 0.0
3.3	10 ± 0.7
10.0	10 ± 1.8
33.0	10 ± 3.5
100.0	9 ± 0.6
333.0	
Trial Summary	Negative
Positive Control ²	112 ± 12.0
Positive Control ⁴	

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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	15 ± 3.2	17 ± 1.0	19 ± 3.2	21 ± 1.0	25 ± 1.5
1.0		19 ± 1.9		26 ± 2.2	
3.3	15 ± 1.7	19 ± 3.3	29 ± 0.9	26 ± 4.3	23 ± 1.5
10.0	13 ± 2.3	14 ± 1.3	20 ± 2.3	26 ± 3.0	31 ± 1.0
33.0	10 ± 2.6	16 ± 2.4	15 ± 0.5	19 ± 0.9	22 ± 2.3
100.0	23 ± 3.8	21 ± 4.2	17 ± 1.2	21 ± 2.0	23 ± 0.9
333.0	7 ± 2.0		9 ± 2.9		11 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			962 ± 12.8	1096 ± 31.6	1101 ± 57.6
Positive Control ⁵	614 ± 31.9	787 ± 55.6			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 1.0
1.0	20 ± 3.1
3.3	23 ± 1.5
10.0	27 ± 4.3
33.0	20 ± 2.9
100.0	22 ± 1.5
333.0	
Trial Summary	Negative
Positive Control ²	1518 ± 15.0
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: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****