

Experiment Number: 066654

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Ethylhexyl 2-cyano-3,3-diphenylacrylate

CAS Number: 6197-30-4

Date Report Requested: 09/10/2018

Time Report Requested: 18:29:20

NTP Study Number:

066654

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	112 ± 0.7	99 ± 6.1	119 ± 7.8	102 ± 4.8	100 ± 4.2
100.0	109 ± 3.8	118 ± 6.0	102 ± 4.2	121 ± 8.0	127 ± 10.0
333.0	128 ± 11.4	106 ± 7.4	123 ± 3.7	123 ± 6.9	120 ± 4.0
1000.0	119 ± 20.0	94 ± 7.1	120 ± 6.1	117 ± 13.0	128 ± 9.9
3333.0	106 ± 4.5	100 ± 5.2	130 ± 10.8	126 ± 6.6	148 ± 6.1
10000.0	111 ± 1.5 ^p	108 ± 7.8 ^p	117 ± 10.3 ^p	116 ± 14.3 ^p	141 ± 3.8 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	439 ± 4.0	363 ± 10.4			
Positive Control ³			587 ± 19.0	461 ± 4.7	2093 ± 100.6

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	98 ± 5.1
100.0	97 ± 6.0
333.0	98 ± 13.2
1000.0	110 ± 11.3
3333.0	109 ± 9.5
10000.0	127 ± 10.7 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1313 ± 44.0

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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	28 ± 4.1	24 ± 1.7	10 ± 2.5	8 ± 0.3	10 ± 1.8
100.0	22 ± 3.0	23 ± 4.5	7 ± 3.0	9 ± 3.0	8 ± 0.3
333.0	20 ± 4.6	23 ± 3.1	9 ± 2.3	11 ± 1.5	11 ± 2.3
1000.0	21 ± 2.9	22 ± 2.2	8 ± 1.9	9 ± 2.6	8 ± 0.6
3333.0	18 ± 1.2	21 ± 3.4	11 ± 1.0	8 ± 2.0	8 ± 0.7
10000.0	22 ± 2.0 ^p	23 ± 5.2 ^p	8 ± 3.8 ^p	11 ± 2.0 ^p	7 ± 1.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	380 ± 25.6	432 ± 13.9			
Positive Control ⁴			213 ± 7.2	174 ± 11.6	404 ± 10.4

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.3
100.0	14 ± 0.9
333.0	7 ± 1.2
1000.0	9 ± 2.3
3333.0	12 ± 2.3
10000.0	9 ± 0.9 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	483 ± 20.8

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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	10 ± 1.7	6 ± 1.7	8 ± 0.3	6 ± 1.2	8 ± 0.7
100.0	8 ± 0.9	4 ± 0.9	5 ± 1.5	6 ± 2.0	5 ± 0.6
333.0	7 ± 0.3	4 ± 0.3	6 ± 1.8	5 ± 0.9	3 ± 1.5
1000.0	7 ± 0.6	5 ± 1.5	6 ± 2.1	8 ± 3.1	3 ± 0.9
3333.0	6 ± 3.1	4 ± 1.5	7 ± 1.5	9 ± 0.9	3 ± 0.7
10000.0	10 ± 3.1 ^P	6 ± 1.0 ^P	5 ± 1.2 ^P	9 ± 0.7 ^P	3 ± 0.6 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			148 ± 6.4	133 ± 13.4	387 ± 17.5
Positive Control ⁵	370 ± 9.3	316 ± 7.4			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 2.5
100.0	11 ± 1.2
333.0	7 ± 0.7
1000.0	5 ± 0.9
3333.0	9 ± 1.5
10000.0	8 ± 1.5 ^p
Trial Summary	Negative
Positive Control ⁴	429 ± 13.7
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	19 ± 2.9	18 ± 0.7	24 ± 2.6	23 ± 1.0	28 ± 2.1
100.0	16 ± 1.9	14 ± 1.2	19 ± 0.3	20 ± 3.2	26 ± 3.0
333.0	15 ± 2.3	18 ± 2.0	17 ± 1.2	21 ± 3.8	21 ± 2.3
1000.0	11 ± 1.3	15 ± 1.5	25 ± 3.8	26 ± 0.9	21 ± 0.3
3333.0	9 ± 3.0	16 ± 0.7	29 ± 1.7	24 ± 1.5	28 ± 4.3
10000.0	17 ± 4.0 ^p	7 ± 1.5 ^p	25 ± 3.3 ^p	25 ± 1.3 ^p	27 ± 1.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			355 ± 13.0	417 ± 17.9	1822 ± 32.7
Positive Control ⁶	826 ± 15.6	640 ± 15.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	27 ± 1.8
100.0	25 ± 4.4
333.0	21 ± 2.3
1000.0	20 ± 4.6
3333.0	19 ± 2.6
10000.0	21 ± 0.6 ^p
Trial Summary	Negative
Positive Control ³	1193 ± 28.5
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: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****