

Experiment Number: 248687

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: **o-Chlorostyrene**

CAS Number: 2039-87-4

Date Report Requested: 09/10/2018

Time Report Requested: 20:35:51

NTP Study Number:

248687

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	92 ± 10.1	108 ± 5.0	99 ± 5.7	119 ± 6.0	108 ± 1.5
1.0	101 ± 6.7	96 ± 2.7			
3.3	90 ± 3.2	106 ± 2.1	100 ± 10.7	122 ± 7.5	102 ± 12.3
10.0	102 ± 4.3	90 ± 1.7	99 ± 3.3	123 ± 3.5	107 ± 6.4
33.0	94 ± 11.3	103 ± 13.1 ^s	111 ± 5.3	119 ± 1.9	104 ± 10.5
67.0	89 ± 3.2 ^s	90 ± 4.6 ^s			
100.0			97 ± 3.2	118 ± 6.0	102 ± 4.6
200.0			89 ± 6.2 ^s	104 ± 3.0 ^s	82 ± 6.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					820 ± 37.0
Positive Control ³	311 ± 13.8	293 ± 3.8			
Positive Control ⁴			462 ± 11.1		
Positive Control ⁵					
Positive Control ⁶				422 ± 8.1	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	122 ± 5.4
1.0	
3.3	120 ± 6.0
10.0	167 ± 7.5
33.0	167 ± 12.5
67.0	
100.0	157 ± 5.7
200.0	128 ± 3.4
Trial Summary	Equivocal
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	368 ± 17.6
Positive Control ⁶	

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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	19 ± 1.7	30 ± 1.3	8 ± 0.7	18 ± 3.4	13 ± 1.5
1.0	17 ± 2.6	25 ± 3.6			
3.3	21 ± 3.0	38 ± 7.6	8 ± 1.5	12 ± 2.1	11 ± 0.7
10.0	11 ± 1.5	27 ± 2.0	8 ± 0.7	13 ± 1.8	12 ± 0.7
33.0	22 ± 2.0	22 ± 2.0 ^s	9 ± 1.5	16 ± 0.6	10 ± 1.5
67.0	10 ± 2.8 ^s	20 ± 3.1 ^s			
100.0			9 ± 1.2 ^s	12 ± 3.3	9 ± 1.5
200.0			7 ± 1.0 ^s	12 ± 3.1 ^s	5 ± 2.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					85 ± 5.0
Positive Control ³	226 ± 8.5	252 ± 19.0			
Positive Control ⁵					
Positive Control ⁶			192 ± 8.5	122 ± 3.6	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	17 ± 1.9
1.0	
3.3	13 ± 0.0
10.0	16 ± 3.5
33.0	12 ± 1.9
67.0	
100.0	13 ± 0.3
200.0	7 ± 0.6 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	131 ± 6.7
Positive Control ⁶	

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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	76 ± 2.9	84 ± 4.9	120 ± 3.2	168 ± 4.3	100 ± 2.3
1.0	62 ± 0.9	87 ± 9.0			
3.3	64 ± 7.9	95 ± 7.2	118 ± 7.9	165 ± 7.2	89 ± 6.5
10.0	74 ± 6.1	89 ± 4.7	117 ± 3.0	166 ± 1.5	103 ± 4.5
33.0	45 ± 5.5 ^s	108 ± 4.8 ^s	97 ± 0.5	173 ± 3.5	93 ± 8.3
67.0	15 ± 5.0 ^s	49 ± 4.5 ^s			
100.0			91 ± 5.2 ^s	170 ± 5.5	88 ± 6.8 ^s
200.0			53 ± 6.1 ^s	125 ± 8.2 ^s	79 ± 5.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					673 ± 30.7
Positive Control ⁶			878 ± 96.2		
Positive Control ⁷				395 ± 13.8	
Positive Control ⁸	736 ± 22.9	928 ± 26.6			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	207 ± 14.1
1.0	
3.3	258 ± 4.4
10.0	205 ± 4.2
33.0	201 ± 4.9
67.0	
100.0	157 ± 19.5
200.0	134 ± 0.3 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	763 ± 9.0
Positive Control ⁸	

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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 ± 4.8	16 ± 1.5	28 ± 2.4	24 ± 2.9	36 ± 3.5
1.0	21 ± 2.1	15 ± 2.2			
3.3	18 ± 1.2	14 ± 1.5	30 ± 5.5	25 ± 2.5	30 ± 3.2
10.0	18 ± 0.9	21 ± 3.5	26 ± 3.2	31 ± 4.3	33 ± 4.2
33.0	20 ± 2.8	12 ± 0.0 ^s	28 ± 4.0	25 ± 2.9	30 ± 2.7
67.0	17 ± 1.5 ^s	13 ± 3.0 ^s			
100.0			24 ± 4.1	22 ± 5.8	30 ± 3.5
200.0			26 ± 3.9 ^s	24 ± 3.5 ^s	25 ± 3.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹					165 ± 14.3
Positive Control ²			181 ± 10.0		
Positive Control ¹⁰	151 ± 4.1	171 ± 7.0			
Positive Control ⁵				114 ± 3.5	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	27 ± 3.0	21 ± 2.3	24 ± 4.5
1.0			
3.3	35 ± 4.7	18 ± 0.6	21 ± 3.2
10.0	32 ± 1.8	21 ± 2.6	24 ± 1.7
33.0	31 ± 4.5	26 ± 2.3	26 ± 5.2
67.0			
100.0	52 ± 7.3	21 ± 3.4	21 ± 4.5 ^s
200.0	53 ± 2.0 ^s	25 ± 0.9 ^s	18 ± 1.2 ^s
Trial Summary	Weakly Positive	Negative	Negative
Positive Control ⁹			
Positive Control ²	193 ± 65.2	81 ± 6.8	94 ± 8.5
Positive Control ¹⁰			
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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 0.2 ug/Plate 2-Aminoanthracene

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****