

Experiment Number: 793780

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 3,3'-(1,4-Phenylene)bis-2-propenoic acid

CAS Number: 16323-43-6

Date Report Requested: 09/18/2018

Time Report Requested: 06:20:06

NTP Study Number:

793780

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	119 ± 16.4	102 ± 5.5	130 ± 6.4	158 ± 9.1	127 ± 3.2
100.0	95 ± 3.4	101 ± 5.6	107 ± 9.4	142 ± 1.2	119 ± 0.7
333.0	122 ± 1.8	93 ± 1.8	121 ± 8.8	139 ± 15.3	123 ± 3.2
1000.0	128 ± 1.2	114 ± 12.4	145 ± 7.5	144 ± 5.4	129 ± 3.8
3333.0	107 ± 13.6	102 ± 10.7	133 ± 12.7	127 ± 12.9	116 ± 6.5
10000.0	111 ± 7.4	114 ± 7.8	116 ± 4.2	152 ± 7.5	126 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					389 ± 8.6
Positive Control ³	659 ± 26.2	401 ± 14.1			
Positive Control ⁴			686 ± 34.6		
Positive Control ⁵					
Positive Control ⁶				745 ± 4.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	140 ± 12.7
100.0	118 ± 6.6
333.0	135 ± 10.1
1000.0	113 ± 9.8
3333.0	122 ± 2.4
10000.0	132 ± 3.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	718 ± 29.2
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	12 ± 1.7	13 ± 3.1	7 ± 2.4	17 ± 2.0	14 ± 2.2
100.0	9 ± 1.5	10 ± 0.9	11 ± 1.9	17 ± 5.0	9 ± 0.6
333.0	10 ± 0.9	8 ± 0.3	10 ± 2.7	16 ± 0.9	8 ± 0.9
1000.0	10 ± 2.6	10 ± 1.2	11 ± 2.3	14 ± 0.6	11 ± 1.5
3333.0	12 ± 1.2	7 ± 0.3	13 ± 0.9	22 ± 3.2	10 ± 2.0
10000.0	11 ± 0.9	8 ± 2.0	10 ± 2.3	15 ± 4.5	12 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					41 ± 3.7
Positive Control ³	374 ± 5.5	287 ± 4.7			
Positive Control ⁵					
Positive Control ⁶			145 ± 1.5	145 ± 7.0	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	17 ± 1.5
100.0	13 ± 4.1
333.0	16 ± 3.3
1000.0	15 ± 2.3
3333.0	20 ± 2.6
10000.0	15 ± 1.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	93 ± 4.9
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	172 ± 1.8	138 ± 5.8	135 ± 7.3	236 ± 6.0	140 ± 4.2
100.0	181 ± 3.5	142 ± 5.0	146 ± 6.0	254 ± 2.4	124 ± 8.5
333.0	161 ± 11.8	146 ± 7.3	155 ± 4.3	233 ± 9.4	142 ± 2.3
1000.0	190 ± 2.0	137 ± 3.5	138 ± 15.4	223 ± 12.3	129 ± 17.5
3333.0	167 ± 5.8	134 ± 3.7	140 ± 4.7	227 ± 17.4	120 ± 13.7
10000.0	189 ± 16.7	151 ± 7.5	124 ± 11.1	194 ± 13.6	120 ± 8.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					684 ± 22.4
Positive Control ⁶			868 ± 9.6	738 ± 20.0	
Positive Control ⁷	492 ± 9.7	339 ± 10.7			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	208 ± 13.2
100.0	210 ± 3.9
333.0	220 ± 16.1
1000.0	240 ± 8.1
3333.0	219 ± 3.5
10000.0	229 ± 16.3
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	786 ± 21.4
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	11 ± 2.2	17 ± 1.0	21 ± 5.5	18 ± 2.3	20 ± 2.0
100.0	15 ± 1.2	15 ± 2.3	23 ± 1.8	15 ± 3.2	23 ± 2.8
333.0	14 ± 1.2	15 ± 2.8	23 ± 5.8	20 ± 1.5	20 ± 2.0
1000.0	12 ± 1.2	14 ± 1.5	20 ± 3.3	16 ± 1.9	22 ± 5.0
3333.0	8 ± 1.8	13 ± 0.0	29 ± 2.1	19 ± 4.2	23 ± 3.3
10000.0	10 ± 1.9	16 ± 1.5	21 ± 1.2	17 ± 4.9	25 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			344 ± 7.7		553 ± 11.0
Positive Control ⁸	262 ± 8.5	205 ± 4.1			
Positive Control ⁵				397 ± 7.0	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	21 ± 1.7
100.0	20 ± 1.5
333.0	20 ± 4.7
1000.0	17 ± 1.5
3333.0	16 ± 2.2
10000.0	18 ± 1.3
Trial Summary	Negative
Positive Control ²	
Positive Control ⁸	
Positive Control ⁵	375 ± 17.7

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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: 24.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****