

Experiment Number: 256282

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (polymer)

CAS Number: 26780-96-1

Date Report Requested: 09/11/2018

Time Report Requested: 02:40:33

NTP Study Number:

256282

Study Result:

Negative

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Mutagenicity**Test Compound: **1,2-Dihydro-2,2,4-trimethylquinoline (polymer)**

Time Report Requested: 02:40:33

CAS Number: 26780-96-1

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	131 ± 12.5	143 ± 7.2	148 ± 5.5	159 ± 11.5	150 ± 12.4
100.0	155 ± 5.5	136 ± 11.0	160 ± 8.2	156 ± 5.0	139 ± 7.0
333.0	140 ± 9.5 ^P	120 ± 5.5 ^P	135 ± 18.7	172 ± 5.5	148 ± 15.3
1000.0	125 ± 3.7 ^P	117 ± 6.5 ^P	152 ± 30.3 ^P	135 ± 16.5 ^P	133 ± 10.0 ^P
3333.0	80 ± 2.9 ^P	96 ± 7.8 ^P	141 ± 6.4 ^P	146 ± 6.5 ^P	121 ± 11.1 ^P
10000.0	88 ± 7.3 ^P	85 ± 7.2 ^P	121 ± 11.2 ^P	146 ± 15.0 ^P	165 ± 9.7 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					826 ± 49.8
Positive Control ³			461 ± 20.2		
Positive Control ⁴				406 ± 10.5	
Positive Control ⁵	764 ± 25.4	1136 ± 15.4			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	167 ± 2.2	117 ± 5.4
100.0	176 ± 7.3	118 ± 10.1
333.0	182 ± 4.0	128 ± 9.5
1000.0	158 ± 10.4 ^P	102 ± 4.4 ^P
3333.0	131 ± 7.7 ^P	120 ± 3.4 ^P
10000.0	161 ± 20.6 ^P	135 ± 9.7 ^P
Trial Summary	Negative	Negative
Positive Control ²		
Positive Control ³	557 ± 16.2	737 ± 22.8
Positive Control ⁴		
Positive Control ⁵		

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CAS Number: 26780-96-1

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.5	7 ± 1.5	9 ± 2.3	17 ± 1.9	10 ± 2.4
100.0	3 ± 0.6	7 ± 1.2	8 ± 2.4	11 ± 1.5	9 ± 0.3
333.0	6 ± 1.3 ^P	6 ± 1.3 ^P	9 ± 2.0	12 ± 1.5	6 ± 1.0
1000.0	5 ± 1.2 ^P	6 ± 1.5 ^P	7 ± 1.5 ^P	9 ± 1.5 ^P	7 ± 0.9 ^P
3333.0	4 ± 1.2 ^P	3 ± 0.3 ^P	7 ± 1.8 ^P	7 ± 1.8 ^P	5 ± 1.5 ^P
10000.0	4 ± 0.3 ^P	6 ± 0.7 ^P	6 ± 1.0 ^P	5 ± 0.9 ^P	7 ± 0.6 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					95 ± 4.3
Positive Control ⁴			75 ± 5.8		
Positive Control ⁵	1039 ± 62.5	1198 ± 86.2			
Positive Control ⁶				67 ± 3.2	

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Test Compound: 1,2-Dihydro-2,2,4-trimethylquinoline (polymer)
CAS Number: 26780-96-1

Date Report Requested: 09/11/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 1.2
100.0	7 ± 0.6
333.0	6 ± 1.3
1000.0	6 ± 1.5 ^P
3333.0	6 ± 0.7 ^P
10000.0	6 ± 1.5 ^P
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	199 ± 20.6
Positive Control ⁵	
Positive Control ⁶	

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CAS Number: 26780-96-1

Date Report Requested: 09/11/2018

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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	160 ± 3.2	150 ± 7.6	191 ± 10.4	180 ± 14.1	180 ± 5.4
100.0	158 ± 9.0	138 ± 1.7	201 ± 6.0	154 ± 6.7	169 ± 3.4
333.0	143 ± 10.0 ^P	143 ± 9.9 ^P	199 ± 7.3	144 ± 3.2	176 ± 2.2
1000.0	137 ± 0.7 ^P	140 ± 8.5 ^P	169 ± 3.8 ^P	151 ± 5.7 ^P	140 ± 9.9 ^P
3333.0	127 ± 3.5 ^P	101 ± 5.9 ^P	162 ± 14.9 ^P	141 ± 5.8 ^P	137 ± 8.4 ^P
10000.0	140 ± 6.2 ^P	97 ± 1.2 ^P	141 ± 11.8 ^P	131 ± 2.4 ^P	131 ± 15.6 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					412 ± 18.3
Positive Control ³			325 ± 6.2		
Positive Control ⁴				310 ± 6.0	
Positive Control ⁷	395 ± 7.5	373 ± 35.4			

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Date Report Requested: 09/11/2018

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	167 ± 6.1
100.0	140 ± 9.9
333.0	153 ± 5.8
1000.0	131 ± 17.9 ^P
3333.0	135 ± 5.2 ^P
10000.0	157 ± 8.7 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	316 ± 10.3
Positive Control ⁴	
Positive Control ⁷	

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CAS Number: 26780-96-1

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	39 ± 4.1	19 ± 1.0	40 ± 0.6	56 ± 2.6	33 ± 2.2
100.0	48 ± 1.5	16 ± 2.3	43 ± 3.2	53 ± 1.8	32 ± 3.9
333.0	38 ± 2.6 ^P	16 ± 1.8 ^P	32 ± 0.7	55 ± 2.0	30 ± 3.4
1000.0	39 ± 1.7 ^P	10 ± 3.9 ^P	29 ± 0.3 ^P	51 ± 4.0 ^P	17 ± 1.5 ^P
3333.0	29 ± 5.2 ^P	18 ± 2.0 ^P	26 ± 1.9 ^P	34 ± 3.5 ^P	20 ± 0.0 ^P
10000.0	25 ± 3.2 ^P	19 ± 0.6 ^P	27 ± 1.7 ^P	39 ± 1.8 ^P	29 ± 2.1 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					560 ± 34.6
Positive Control ³			241 ± 9.7	151 ± 19.4	
Positive Control ⁸	466 ± 19.4	601 ± 18.2			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	42 ± 5.7	19 ± 2.6
100.0	47 ± 10.7	21 ± 1.7
333.0	60 ± 4.2	20 ± 0.3
1000.0	49 ± 8.4 ^p	9 ± 2.0 ^p
3333.0	65 ± 3.5 ^p	8 ± 1.5 ^p
10000.0	35 ± 4.6 ^p	10 ± 0.3 ^p
Trial Summary	Equivocal	Negative
Positive Control ²		
Positive Control ³	435 ± 28.9	581 ± 33.5
Positive Control ⁸		

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****