

Experiment Number: 391551

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **2,6-Dimethyl phenol**

CAS Number: **576-26-1**

Date Report Requested: **09/14/2018**

Time Report Requested: **10:26:34**

NTP Study Number:

391551

Study Result:

Negative

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Test Compound: 2,6-Dimethyl phenol

CAS Number: 576-26-1

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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	147 ± 14.7	113 ± 2.3	116 ± 4.3	134 ± 11.3	114 ± 4.5
10.0	163 ± 4.8	117 ± 7.3	105 ± 7.8		92 ± 1.9
33.0	152 ± 12.4	116 ± 3.8	106 ± 0.7	144 ± 13.7	92 ± 5.3
100.0	175 ± 8.4	116 ± 7.4	99 ± 6.4	165 ± 11.2	112 ± 1.5
333.0	149 ± 11.3	122 ± 7.0	110 ± 4.7	164 ± 2.0	112 ± 4.8
1000.0	46 ± 23.3 ^s	49 ± 24.6 ^s	18 ± 17.2 ^s	141 ± 13.6 ^s	68 ± 3.0 ^s
2000.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					389 ± 14.9
Positive Control ³	320 ± 1.2	495 ± 18.5			
Positive Control ⁴			2164 ± 40.6		
Positive Control ⁵					
Positive Control ⁶				1332 ± 39.6	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	170 ± 3.8
10.0	
33.0	165 ± 1.0
100.0	165 ± 6.7
333.0	169 ± 6.1
1000.0	148 ± 15.0 ^s
2000.0	Toxic
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	500 ± 3.7
Positive Control ⁶	

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Test Compound: 2,6-Dimethyl phenol

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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	23 ± 1.3	26 ± 2.4	14 ± 0.6	16 ± 1.0	14 ± 1.5
10.0	22 ± 0.6	22 ± 3.0	12 ± 3.1	14 ± 2.0	13 ± 2.7
33.0	28 ± 3.8	31 ± 3.5	12 ± 2.5	12 ± 2.3	13 ± 1.2
100.0	23 ± 1.5	27 ± 3.5	11 ± 1.0	11 ± 2.3	15 ± 1.2
333.0	24 ± 3.9	32 ± 3.0	14 ± 2.8	13 ± 1.5	11 ± 1.8
1000.0	15 ± 1.5 ^s	13 ± 8.5 ^s	9 ± 0.6 ^s	12 ± 1.7 ^s	6 ± 2.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					86 ± 9.5
Positive Control ³	220 ± 12.2	238 ± 23.1			
Positive Control ⁵					
Positive Control ⁶			407 ± 14.2	234 ± 11.8	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 2.3
10.0	12 ± 2.0
33.0	11 ± 1.8
100.0	12 ± 1.8
333.0	14 ± 3.0
1000.0	12 ± 4.4 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	158 ± 6.9
Positive Control ⁶	

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Test Compound: 2,6-Dimethyl phenol

CAS Number: 576-26-1

Date Report Requested: 09/14/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	117 ± 12.1	142 ± 6.5	140 ± 9.8	112 ± 0.9	126 ± 4.6
10.0	104 ± 3.8	130 ± 5.4	147 ± 4.2	92 ± 3.5	114 ± 6.1
33.0	123 ± 5.2	141 ± 8.7	121 ± 5.5	91 ± 8.3	120 ± 3.1
100.0	121 ± 5.8	146 ± 13.7	125 ± 4.1	97 ± 7.8	127 ± 7.1
333.0	68 ± 4.4 ^s	123 ± 9.8	126 ± 3.1	94 ± 5.5	119 ± 3.6
1000.0	Toxic	5 ± 4.7 ^s	85 ± 6.4 ^s	72 ± 4.4 ^s	99 ± 6.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷	712 ± 26.3				
Positive Control ⁴				812 ± 30.0	
Positive Control ⁶		4007 ± 39.4			
Positive Control ⁸			975 ± 16.7		1058 ± 36.9
Positive Control ⁹					

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Test Compound: 2,6-Dimethyl phenol

CAS Number: 576-26-1

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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	15 ± 1.5	25 ± 3.2	34 ± 2.8	29 ± 2.7	32 ± 5.7
10.0	18 ± 3.2	19 ± 2.8	29 ± 3.2		33 ± 4.9
33.0	20 ± 2.0	26 ± 2.6	28 ± 0.9	27 ± 2.1	32 ± 3.6
100.0	19 ± 4.7	20 ± 3.5	37 ± 4.1	27 ± 3.7	34 ± 2.3
333.0	19 ± 3.5	21 ± 0.9	26 ± 1.8	33 ± 3.7	26 ± 3.5
1000.0	15 ± 0.7 ^s	13 ± 1.5 ^s	17 ± 1.9 ^s	27 ± 2.0 ^s	24 ± 1.9 ^s
2000.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					
Positive Control ²			450 ± 9.8	352 ± 10.4	150 ± 9.8
Positive Control ¹¹	370 ± 6.0	361 ± 34.4			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	35 ± 2.3
10.0	
33.0	27 ± 2.8
100.0	27 ± 5.8
333.0	26 ± 5.0
1000.0	29 ± 3.7
2000.0	Toxic
Trial Summary	Negative
Positive Control ¹⁰	135 ± 21.8
Positive Control ²	
Positive Control ¹¹	

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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: 0.05 ug/Plate Solvent

8: 2.5 ug/Plate 2-Aminoanthracene

9: 24.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****