

Experiment Number: 068561

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,5-Dimethyl phenol

CAS Number: 95-87-4

Date Report Requested: 09/10/2018

Time Report Requested: 18:40:16

NTP Study Number:

068561

Study Result:

Equivocal

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control ¹	90 ± 1.7	115 ± 8.7	115 ± 4.9	123 ± 3.0	115 ± 5.9
10.0		130 ± 4.8			108 ± 3.1
33.0	101 ± 4.3	114 ± 2.7	125 ± 3.8		114 ± 10.6
67.0			122 ± 9.2	112 ± 6.7	
100.0	103 ± 6.1	129 ± 7.4	127 ± 9.0	114 ± 3.7	111 ± 5.5
200.0				114 ± 4.2	
333.0	98 ± 5.7	133 ± 3.6	200 ± 6.0		110 ± 4.3
334.0				109 ± 7.8	
500.0					
667.0			148 ± 6.2 ^s	79 ± 5.5 ^s	
1000.0	77 ± 10.0 ^s	48 ± 47.5 ^s	72 ± 8.4 ^s		76 ± 13.5 ^s
2000.0	Toxic				
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²					
Positive Control ³	276 ± 14.4	484 ± 36.8			
Positive Control ⁴			1420 ± 33.6	3742 ± 54.8	1037 ± 21.1
Positive Control ⁵					
Positive Control ⁶					

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	83 ± 9.2	121 ± 3.2	106 ± 12.5	97 ± 7.5	108 ± 13.5
10.0				109 ± 2.4	121 ± 4.1
33.0	101 ± 5.0	134 ± 5.6		127 ± 7.8	119 ± 2.3
67.0		136 ± 3.2	119 ± 5.6		
100.0	101 ± 13.0	140 ± 8.5	118 ± 4.3	220 ± 4.3	120 ± 4.3
200.0			125 ± 12.9		
333.0	117 ± 7.9	146 ± 8.1		251 ± 10.4	151 ± 6.9
334.0			131 ± 6.1		
500.0					128 ± 5.0
667.0		119 ± 4.4	98 ± 7.3 ^s		
1000.0	76 ± 12.9 ^s	37 ± 37.0 ^s		49 ± 23.8 ^s	
2000.0	Toxic				
Trial Summary	Equivocal	Negative	Negative	Positive	Equivocal
Positive Control ²			519 ± 17.7	393 ± 8.3	469 ± 25.6
Positive Control ³					
Positive Control ⁴					
Positive Control ⁵					
Positive Control ⁶	1594 ± 47.5	4337 ± 25.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	99 ± 2.7	94 ± 9.8	137 ± 1.8	124 ± 4.3
10.0	104 ± 3.1		137 ± 2.4	109 ± 12.1
33.0	114 ± 3.5	110 ± 3.8	125 ± 5.6	112 ± 7.4
67.0				
100.0	112 ± 1.7	105 ± 8.7	135 ± 3.0	123 ± 6.1
200.0				
333.0	128 ± 6.9	120 ± 11.6	163 ± 1.3	173 ± 10.5
334.0				
500.0	112 ± 7.3		170 ± 10.4	189 ± 3.6
667.0				
1000.0		113 ± 2.9 ^s		
2000.0		Toxic		
Trial Summary	Negative	Negative	Equivocal	Equivocal
Positive Control ²	424 ± 20.4			
Positive Control ³				
Positive Control ⁴				
Positive Control ⁵		583 ± 23.0	606 ± 17.3	489 ± 12.5
Positive Control ⁶				

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	24 ± 2.2	31 ± 2.7	25 ± 1.3	13 ± 1.3	17 ± 2.7
10.0		31 ± 4.7		8 ± 1.8	
33.0	27 ± 1.5	38 ± 2.2	30 ± 4.3	9 ± 0.0	13 ± 2.6
100.0	20 ± 2.1	40 ± 4.7	36 ± 6.0	12 ± 1.5	12 ± 1.5
333.0	30 ± 3.4	47 ± 3.8	36 ± 5.0	11 ± 3.5	9 ± 1.9
500.0			40 ± 6.8		
667.0			30 ± 5.0 ^s		
1000.0	Toxic	36 ± 5.5 ^s		3 ± 2.4 ^s	7 ± 0.9 ^s
2000.0	Toxic				Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	186 ± 6.9	285 ± 14.8	434 ± 10.4		
Positive Control ⁵					
Positive Control ⁶				431 ± 6.6	229 ± 9.5

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	15 ± 0.7	15 ± 2.2
10.0	15 ± 1.0	
33.0	13 ± 1.3	11 ± 0.7
100.0	12 ± 3.0	11 ± 0.9
333.0	10 ± 1.9	12 ± 0.9
500.0		
667.0		
1000.0	9 ± 7.0 ^s	9 ± 3.2 ^s
2000.0		Toxic
Trial Summary	Negative	Negative
Positive Control ²	88 ± 4.0	
Positive Control ³		
Positive Control ⁵		212 ± 23.3
Positive Control ⁶		

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	109 ± 4.3	133 ± 10.7	165 ± 4.4	147 ± 2.0	115 ± 7.0
10.0	115 ± 3.8	171 ± 7.3			111 ± 4.5
33.0	110 ± 3.7	141 ± 7.9	141 ± 5.9	184 ± 10.8	112 ± 8.0
67.0				150 ± 1.8	
100.0	111 ± 9.1	158 ± 6.1	136 ± 9.8	154 ± 11.7	110 ± 7.4
333.0	106 ± 1.2	139 ± 8.7 ^s	124 ± 11.1	145 ± 5.5	130 ± 5.7
500.0	98 ± 6.7 ^s				
667.0				123 ± 6.7 ^s	
1000.0		94 ± 7.8 ^s	94 ± 4.0 ^s	71 ± 27.2 ^s	50 ± 38.5 ^s
2000.0			Toxic		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷	727 ± 7.7				
Positive Control ⁴					702 ± 12.2
Positive Control ⁶		3010 ± 37.3			
Positive Control ⁸			1077 ± 13.6	1379 ± 85.5	
Positive Control ⁹					

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Test Compound: 2,5-Dimethyl phenol

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	123 ± 1.2
10.0	
33.0	123 ± 4.9
67.0	
100.0	108 ± 7.2
333.0	116 ± 7.0
500.0	
667.0	
1000.0	93 ± 6.8 ^s
2000.0	Toxic
Trial Summary	Negative
Positive Control ⁷	
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁸	1119 ± 74.6
Positive Control ⁹	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	22 ± 0.3	19 ± 3.2	26 ± 4.0	37 ± 2.4	25 ± 3.6
10.0		19 ± 0.6		32 ± 2.1	
33.0	15 ± 1.2	24 ± 1.8	30 ± 2.9	30 ± 0.9	29 ± 1.2
100.0	17 ± 1.5	19 ± 1.8	36 ± 2.9	37 ± 1.0	22 ± 1.5
333.0	21 ± 3.0	22 ± 4.7	29 ± 3.4	33 ± 6.0	31 ± 4.9
1000.0	5 ± 2.6 ^s	3 ± 3.0 ^s	21 ± 1.5 ^s	21 ± 5.5 ^s	30 ± 3.8 ^s
2000.0	Toxic		11 ± 7.4 ^s		2 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				267 ± 12.7	68 ± 3.6
Positive Control ⁵			307 ± 23.2		
Positive Control ¹⁰	303 ± 13.3	379 ± 13.6			

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

s: Slight Toxicity

**** END OF REPORT ****