

Experiment Number: 755471

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

G06: Ames Summary Data

Test Compound: **2,5-Dimethyl phenol**

CAS Number: **95-87-4**

Date Report Requested: **09/17/2018**

Time Report Requested: **14:57:11**

NTP Study Number:

755471

Study Result:

Negative

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Test Compound: 2,5-Dimethyl phenol

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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	175 ± 9.0	96 ± 1.5	122 ± 3.5	233 ± 6.8	111 ± 6.0
10.0	176 ± 18.5	102 ± 7.9	110 ± 5.1	222 ± 7.3	108 ± 4.6
33.0	162 ± 3.2	116 ± 4.1	114 ± 10.0	233 ± 15.8	118 ± 7.1
100.0	181 ± 10.7	96 ± 8.3	114 ± 3.8	220 ± 19.8	110 ± 8.1
333.0	168 ± 7.0	102 ± 10.6	120 ± 4.4	241 ± 2.9	137 ± 8.6
500.0	121 ± 7.0	95 ± 12.7	113 ± 8.5	211 ± 7.5	113 ± 4.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					303 ± 37.5
Positive Control ³	566 ± 20.3	489 ± 12.5			
Positive Control ⁴			1097 ± 31.5		
Positive Control ⁵					
Positive Control ⁶				1418 ± 45.0	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	184 ± 6.4	104 ± 5.2
10.0	203 ± 3.6	100 ± 1.5
33.0	192 ± 3.8	113 ± 13.3
100.0	219 ± 15.2	130 ± 3.9
333.0	201 ± 7.1	110 ± 4.5
500.0	152 ± 11.1	109 ± 0.7
Trial Summary	Negative	Negative
Positive Control ²		
Positive Control ³		
Positive Control ⁴		
Positive Control ⁵	1103 ± 17.6	433 ± 18.9
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	9 ± 1.8	11 ± 0.9	8 ± 0.9	9 ± 2.0	10 ± 2.4
10.0	9 ± 2.1	13 ± 2.8	10 ± 2.0	12 ± 2.0	11 ± 1.0
33.0	8 ± 2.0	8 ± 0.9	9 ± 1.2	10 ± 1.5	10 ± 2.4
100.0	9 ± 1.2	7 ± 1.3	14 ± 1.5	10 ± 2.2	12 ± 2.3
333.0	10 ± 3.2	13 ± 0.7	10 ± 1.8	9 ± 0.3	10 ± 3.5
500.0	8 ± 1.5	12 ± 1.5	8 ± 1.2	10 ± 2.1	8 ± 2.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					33 ± 0.9
Positive Control ³	246 ± 21.1	367 ± 14.3			
Positive Control ⁵					
Positive Control ⁶			184 ± 13.5	144 ± 6.1	

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Test Compound: **2,5-Dimethyl phenol**

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.5
10.0	10 ± 1.7
33.0	9 ± 2.4
100.0	8 ± 2.1
333.0	10 ± 2.8
500.0	8 ± 0.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	93 ± 6.0
Positive Control ⁶	

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Test Type: Genetic Toxicology - Bacterial
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Test Compound: 2,5-Dimethyl phenol

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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	124 ± 5.3	167 ± 12.3	166 ± 5.2	184 ± 10.0	162 ± 6.9
10.0	155 ± 7.3	184 ± 16.6	171 ± 9.5	179 ± 15.3	162 ± 6.1
33.0	138 ± 10.4	166 ± 6.8	175 ± 4.9	171 ± 6.8	163 ± 6.4
100.0	71 ± 36.3	162 ± 8.4	159 ± 12.8	152 ± 13.9	156 ± 2.5
333.0	115 ± 7.5	170 ± 11.8	159 ± 15.0	146 ± 8.9	175 ± 6.7
500.0	133 ± 9.0	150 ± 13.3	160 ± 14.2	168 ± 10.6	157 ± 9.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					864 ± 134.6
Positive Control ⁶			3270 ± 44.4	978 ± 6.4	
Positive Control ⁷	381 ± 25.2	1096 ± 29.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	132 ± 1.3
10.0	144 ± 4.7
33.0	150 ± 9.5
100.0	87 ± 43.9
333.0	125 ± 6.0
500.0	157 ± 7.0
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	1160 ± 21.8
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	13 ± 2.2	25 ± 3.8	29 ± 4.5	20 ± 3.5	23 ± 5.5
10.0	19 ± 2.9	35 ± 5.0	34 ± 1.5	24 ± 0.3	25 ± 1.8
33.0	21 ± 1.8	31 ± 5.5	29 ± 1.0	23 ± 2.0	26 ± 0.3
100.0	19 ± 0.7	29 ± 4.9	23 ± 1.8	20 ± 1.0	22 ± 3.7
333.0	16 ± 3.2	31 ± 5.9	32 ± 4.4	22 ± 1.9	28 ± 6.8
500.0	21 ± 1.5	38 ± 4.9	28 ± 1.2	24 ± 3.2	23 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			333 ± 37.5		267 ± 12.1
Positive Control ⁸	475 ± 11.7	381 ± 16.1			
Positive Control ⁵				464 ± 13.1	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	24 ± 3.8
10.0	26 ± 3.4
33.0	29 ± 4.6
100.0	27 ± 0.3
333.0	28 ± 5.2
500.0	27 ± 3.5
Trial Summary	Negative
Positive Control ²	
Positive Control ⁸	
Positive Control ⁵	959 ± 50.7

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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 ****