

Experiment Number: 704425

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

G06: Ames Summary Data

Test Compound: **2,4-Dimethylphenol**

CAS Number: **105-67-9**

Date Report Requested: **09/12/2018**

Time Report Requested: **12:54:59**

NTP Study Number:

704425

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	110 ± 5.8	113 ± 4.4	218 ± 9.6	107 ± 7.1	106 ± 6.9
3.3	112 ± 10.8				141 ± 11.3
10.0	126 ± 11.4	125 ± 8.4	210 ± 5.6	116 ± 2.1	180 ± 13.2
33.0	132 ± 8.2	115 ± 8.3	249 ± 4.3	123 ± 11.1	249 ± 6.9
100.0	118 ± 3.0	126 ± 5.6	228 ± 21.4	126 ± 4.7	248 ± 15.7
333.0	118 ± 1.9	126 ± 4.0	251 ± 9.8	129 ± 2.2	244 ± 14.2
500.0		115 ± 3.0	223 ± 8.1	128 ± 9.1	
Trial Summary	Negative	Negative	Negative	Negative	Positive
Positive Control ²				362 ± 3.5	
Positive Control ³	818 ± 46.8				
Positive Control ⁴		471 ± 14.1			
Positive Control ⁵					1028 ± 13.2
Positive Control ⁶			1955 ± 31.7		

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	227 ± 9.3	109 ± 4.5
3.3		
10.0	209 ± 1.5	127 ± 5.6
33.0	244 ± 2.8	133 ± 0.3
100.0	264 ± 2.5	158 ± 3.7
333.0	326 ± 15.4	179 ± 4.1
500.0	260 ± 1.5	163 ± 7.0
Trial Summary	Equivocal	Weakly Positive
Positive Control ²		
Positive Control ³		
Positive Control ⁴		
Positive Control ⁵	908 ± 108.5	417 ± 8.1
Positive Control ⁶		

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	15 ± 3.3	17 ± 3.8	12 ± 0.7	10 ± 2.4
10.0	9 ± 1.5	18 ± 2.6	7 ± 0.9	12 ± 0.9
33.0	11 ± 1.0	15 ± 3.3	9 ± 2.7	14 ± 0.9
100.0	9 ± 1.5	16 ± 3.5	11 ± 0.9	14 ± 1.0
333.0	10 ± 2.0	8 ± 2.6	12 ± 1.5	13 ± 1.7
500.0	9 ± 4.5	10 ± 1.5	12 ± 0.6	11 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²			59 ± 2.9	
Positive Control ⁵				109 ± 1.8
Positive Control ⁶	79 ± 9.2	90 ± 4.7		

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G06: Ames Summary Data

Test Compound: 2,4-Dimethylphenol

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	30 ± 1.2	25 ± 2.3	33 ± 2.4
3.3	25 ± 2.4		41 ± 5.6
10.0	24 ± 2.3	20 ± 0.6	42 ± 2.6
33.0	23 ± 3.8	19 ± 2.5	40 ± 2.0
100.0	24 ± 0.6	17 ± 3.9	39 ± 2.0
333.0	21 ± 2.3	24 ± 3.2	31 ± 3.0
500.0		16 ± 3.5	
Trial Summary	Negative	Negative	Negative
Positive Control ⁵		656 ± 29.5	1060 ± 175.6
Positive Control ⁷	452 ± 15.8		

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CAS Number: **105-67-9**

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

**** END OF REPORT ****