

Experiment Number: 969471

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

**G06: Ames Summary Data**

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

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

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

Time Report Requested: **22:41:21**

**NTP Study Number:**

969471

**Study Result:**

Negative

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	100 ± 4.4	105 ± 8.4	143 ± 11.6	138 ± 2.6	160 ± 17.9
0.33		83 ± 5.9		144 ± 6.4	
1.0		99 ± 8.7		123 ± 9.2	
3.3	94 ± 6.4	93 ± 3.5	142 ± 7.2	126 ± 7.4	179 ± 7.4
10.0	81 ± 8.9	99 ± 7.0	145 ± 14.8	120 ± 10.7	169 ± 8.7
33.0	75 ± 7.9	90 ± 7.7	146 ± 9.9	128 ± 8.1	182 ± 12.7
100.0	82 ± 9.5		163 ± 7.2		184 ± 3.1
333.0	82 ± 14.5		143 ± 0.0		131 ± 29.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			316 ± 28.4	536 ± 96.1	344 ± 45.3
Positive Control <sup>3</sup>	787 ± 115.9	566 ± 51.7			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	142 ± 9.7
0.33	126 ± 15.6
1.0	140 ± 8.0
3.3	145 ± 6.6
10.0	137 ± 6.4
33.0	140 ± 12.1
100.0	
333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	746 ± 124.5
Positive Control <sup>3</sup>	

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## G06: Ames Summary Data

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	9 ± 1.5	11 ± 1.2	7 ± 0.3	7 ± 2.0	10 ± 2.5
0.33		11 ± 2.2		6 ± 1.2	
1.0		11 ± 1.2		6 ± 1.2	
3.3	8 ± 1.7	8 ± 1.5	8 ± 0.9	7 ± 1.3	8 ± 0.6
10.0	6 ± 0.3	7 ± 0.3	8 ± 0.9	7 ± 0.7	8 ± 1.2
33.0	9 ± 1.7	9 ± 1.5	7 ± 2.0	5 ± 1.2	7 ± 0.9
100.0	8 ± 0.9		8 ± 1.2		11 ± 3.8
333.0	Toxic		Toxic		9 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			264 ± 28.3	189 ± 54.3	321 ± 45.7
Positive Control <sup>3</sup>	683 ± 86.5	356 ± 27.5			

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	13 ± 2.0
0.33	8 ± 1.8
1.0	9 ± 2.4
3.3	12 ± 1.0
10.0	10 ± 2.1
33.0	8 ± 0.9
100.0	
333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	114 ± 6.9
Positive Control <sup>3</sup>	

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**Strain: TA1537**

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	4 ± 0.3	3 ± 0.3	5 ± 1.0	4 ± 0.7	8 ± 2.1
0.33		4 ± 1.0		8 ± 0.6	
1.0		4 ± 0.0		8 ± 1.5	
3.3	4 ± 0.3	3 ± 0.3	9 ± 1.9	8 ± 0.7	4 ± 0.6
10.0	4 ± 0.9	3 ± 0.3	8 ± 0.7	5 ± 1.9	4 ± 0.6
33.0	5 ± 0.9	4 ± 0.3	9 ± 0.7	6 ± 1.3	4 ± 0.6
100.0	5 ± 0.3		12 ± 1.5		7 ± 0.7
333.0	4 ± 1.5		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			227 ± 18.6	56 ± 28.0	212 ± 15.0
Positive Control <sup>4</sup>	168 ± 9.4	57 ± 0.5			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	11 ± 2.7
0.33	8 ± 2.0
1.0	5 ± 0.6
3.3	5 ± 1.5
10.0	5 ± 0.6
33.0	4 ± 0.3
100.0	
333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	120 ± 11.8
Positive Control <sup>4</sup>	

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 1.3	15 ± 1.0	18 ± 0.6	17 ± 0.7	20 ± 0.6
0.33		11 ± 2.5		13 ± 0.9	
1.0		16 ± 3.0		14 ± 1.3	
3.3	13 ± 2.3	15 ± 3.2	14 ± 0.9	15 ± 1.2	17 ± 1.0
10.0	10 ± 0.9	13 ± 1.9	16 ± 2.1	15 ± 0.9	20 ± 5.0
33.0	10 ± 1.5	15 ± 1.5	16 ± 4.5	11 ± 3.5	17 ± 2.3
100.0	10 ± 3.5		Toxic		19 ± 3.7
333.0	Toxic		Toxic		15 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			561 ± 132.8	438 ± 114.9	976 ± 165.7
Positive Control <sup>5</sup>	443 ± 17.1	425 ± 26.2			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	19 ± 0.3
0.33	20 ± 2.7
1.0	15 ± 1.2
3.3	17 ± 0.9
10.0	22 ± 2.2
33.0	18 ± 2.5
100.0	
333.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	542 ± 73.2
Positive Control <sup>5</sup>	

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**LEGEND**

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**\*\* END OF REPORT \*\***