

Experiment Number: 856145

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

**G06: Ames Summary Data**

Test Compound: **Dimethyl phthalate**

CAS Number: 131-11-3

Date Report Requested: **09/16/2018**

Time Report Requested: **12:43:48**

**NTP Study Number:**

856145

**Study Result:**

Negative

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## G06: Ames Summary Data

Test Compound: Dimethyl phthalate

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Date Report Requested: 09/16/2018

Time Report Requested: 12:43:48

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	111 ± 6.0	156 ± 4.5	135 ± 9.7	131 ± 4.7	141 ± 12.7
33.0	117 ± 8.1	147 ± 10.8			
100.0	116 ± 9.8	146 ± 12.3	125 ± 10.8	145 ± 8.5	142 ± 11.9
333.0	134 ± 2.6	146 ± 4.2	120 ± 8.7	120 ± 3.8	137 ± 14.5
1000.0	131 ± 6.1	148 ± 7.5	122 ± 9.1	118 ± 6.8	131 ± 12.5
2166.0	124 ± 5.0				
3000.0		149 ± 10.4 <sup>s</sup>			
3333.0			114 ± 6.3	99 ± 3.2 <sup>s</sup>	140 ± 6.0
5000.0				90 ± 8.0 <sup>s</sup>	
6666.0			86 ± 0.5 <sup>s</sup>		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1096 ± 36.8
Positive Control <sup>3</sup>			698 ± 12.9	983 ± 96.5	
Positive Control <sup>4</sup>	1066 ± 8.1	1484 ± 57.2			

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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>	144 ± 8.6
33.0	
100.0	134 ± 6.4
333.0	126 ± 9.4
1000.0	136 ± 2.3
2166.0	
3000.0	
3333.0	114 ± 11.8 <sup>s</sup>
5000.0	98 ± 10.7 <sup>s</sup>
6666.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1535 ± 35.7
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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## G06: Ames Summary Data

Test Compound: Dimethyl phthalate

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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>	21 ± 2.6	28 ± 0.7	14 ± 0.7	12 ± 0.9	12 ± 1.7
33.0	27 ± 4.1	26 ± 3.2			
100.0	25 ± 2.7	23 ± 3.4	12 ± 0.9	10 ± 1.7	11 ± 1.5
333.0	17 ± 1.7	29 ± 1.2	12 ± 1.5	13 ± 1.5	10 ± 1.5
1000.0	25 ± 5.5	34 ± 3.9	12 ± 0.7	12 ± 1.2	16 ± 2.3
2166.0	26 ± 2.9				
3000.0		32 ± 1.9 <sup>s</sup>			
3333.0			12 ± 3.2	11 ± 3.8	9 ± 0.0
5000.0				9 ± 1.7 <sup>s</sup>	
6666.0			10 ± 1.0 <sup>s</sup>		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					75 ± 9.3
Positive Control <sup>3</sup>			59 ± 6.7	68 ± 2.7	
Positive Control <sup>4</sup>	853 ± 17.0	1057 ± 7.5			

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Test Compound: **Dimethyl phthalate**

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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>	10 ± 2.7
33.0	
100.0	7 ± 1.5
333.0	13 ± 1.9
1000.0	11 ± 1.7
2166.0	
3000.0	
3333.0	8 ± 1.0 <sup>s</sup>
5000.0	Toxic
6666.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	88 ± 5.3
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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Test Compound: Dimethyl phthalate

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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>	5 ± 0.9	5 ± 1.2	6 ± 0.0	7 ± 0.9	8 ± 0.7
33.0	5 ± 2.0	5 ± 1.3			
100.0	11 ± 2.0	6 ± 1.0	9 ± 0.7	9 ± 1.2	6 ± 0.3
333.0	5 ± 1.2	10 ± 1.5	8 ± 0.3	8 ± 0.7	8 ± 0.9
1000.0	6 ± 1.5	6 ± 0.6	6 ± 1.8	7 ± 1.2	5 ± 0.9
2166.0	7 ± 1.3				
3000.0		4 ± 1.5 <sup>s</sup>			
3333.0			6 ± 1.3	6 ± 1.7 <sup>s</sup>	7 ± 1.5
5000.0				Toxic	
6666.0			6 ± 2.3 <sup>s</sup>		3 ± 0.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					92 ± 5.2
Positive Control <sup>3</sup>			46 ± 5.9	67 ± 5.9	
Positive Control <sup>5</sup>	623 ± 104.6	225 ± 23.2			

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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>	8 ± 2.1
33.0	
100.0	5 ± 0.3
333.0	10 ± 0.3
1000.0	7 ± 0.7
2166.0	
3000.0	
3333.0	4 ± 1.7 <sup>s</sup>
5000.0	5 ± 0.7 <sup>s</sup>
6666.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	120 ± 9.4
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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## G06: Ames Summary Data

Test Compound: Dimethyl phthalate

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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>	19 ± 0.9	16 ± 2.2	22 ± 1.3	30 ± 2.0	27 ± 5.3
33.0	17 ± 2.9	19 ± 3.5			
100.0	18 ± 1.9	18 ± 4.4	21 ± 2.5	27 ± 1.0	28 ± 2.3
333.0	14 ± 1.9	17 ± 2.5	23 ± 4.8	23 ± 1.5	25 ± 3.1
1000.0	16 ± 1.2	19 ± 1.5	20 ± 4.6	25 ± 3.9	32 ± 4.4
2166.0	14 ± 1.0				
3000.0		19 ± 1.7			
3333.0			18 ± 2.0	19 ± 2.3 <sup>s</sup>	23 ± 5.0
5000.0				15 ± 3.5 <sup>s</sup>	
6666.0			15 ± 1.2 <sup>s</sup>		14 ± 2.6 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					848 ± 14.1
Positive Control <sup>3</sup>			415 ± 16.3	747 ± 20.9	
Positive Control <sup>6</sup>	1282 ± 67.1	1245 ± 60.7			



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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>	26 ± 2.0
33.0	
100.0	31 ± 0.3
333.0	26 ± 1.2
1000.0	27 ± 2.2
2166.0	
3000.0	
3333.0	28 ± 2.7
5000.0	18 ± 3.8 <sup>s</sup>
6666.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1366 ± 32.3
Positive Control <sup>3</sup>	
Positive Control <sup>6</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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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