

Experiment Number: **077089**

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

**G06: Ames Summary Data**

Test Compound: **Dibutyl Phthalate**

CAS Number: **84-74-2**

Date Report Requested: **09/11/2018**

Time Report Requested: **00:48:51**

**NTP Study Number:**

077089

**Study Result:**

Negative

Experiment Number: 077089

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## G06: Ames Summary Data

Test Compound: Dibutyl Phthalate

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Time Report Requested: 00:48:51

## 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>	128 ± 2.6	139 ± 9.2	131 ± 7.5	123 ± 12.2	124 ± 11.3
100.0	136 ± 9.7	141 ± 4.3	124 ± 8.3	119 ± 11.3	123 ± 2.7
333.0	126 ± 13.1	138 ± 1.8	108 ± 4.8	112 ± 6.7	127 ± 5.2
1000.0	132 ± 5.9	143 ± 6.1	122 ± 3.1	124 ± 10.7	105 ± 1.5
3333.0	134 ± 6.4	134 ± 9.2	130 ± 15.0	117 ± 4.6	108 ± 5.9
10000.0	132 ± 9.8	142 ± 6.4	91 ± 7.2	81 ± 3.8	80 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1292 ± 44.3
Positive Control <sup>3</sup>			900 ± 44.2	850 ± 85.5	
Positive Control <sup>4</sup>	1114 ± 37.4	1190 ± 32.3			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	125 ± 8.5
100.0	136 ± 8.4
333.0	130 ± 11.7
1000.0	119 ± 2.1
3333.0	124 ± 3.8
10000.0	102 ± 10.9
Trial Summary	Negative
Positive Control <sup>2</sup>	1105 ± 45.5
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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Test Compound: Dibutyl 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>	25 ± 2.7	26 ± 1.8	11 ± 2.2	16 ± 2.6	9 ± 2.8
100.0	29 ± 2.0	26 ± 3.5	13 ± 2.0	12 ± 2.7	11 ± 0.0
333.0	26 ± 2.7	24 ± 1.9	12 ± 1.2	10 ± 1.5	8 ± 1.5
1000.0	26 ± 2.9	22 ± 0.0	13 ± 3.3	13 ± 2.9	10 ± 2.1
3333.0	25 ± 3.5	21 ± 1.5	9 ± 2.1	13 ± 0.3	9 ± 0.7
10000.0	21 ± 0.3	26 ± 3.2	5 ± 0.0	9 ± 1.2	5 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					54 ± 6.3
Positive Control <sup>3</sup>			71 ± 9.2	78 ± 0.7	
Positive Control <sup>4</sup>	900 ± 37.7	953 ± 29.7			

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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>	12 ± 1.9
100.0	12 ± 3.2
333.0	15 ± 1.7
1000.0	13 ± 0.0
3333.0	13 ± 0.9
10000.0	8 ± 1.7
Trial Summary	Negative
Positive Control <sup>2</sup>	80 ± 4.5
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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## G06: Ames Summary Data

Test Compound: Dibutyl 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>	9 ± 1.5	6 ± 1.0	10 ± 0.3	7 ± 1.5	12 ± 1.2
100.0	7 ± 2.2	5 ± 0.6	8 ± 0.9	9 ± 2.2	7 ± 1.7
333.0	6 ± 1.3	6 ± 0.9	9 ± 1.5	4 ± 0.7	9 ± 1.2
1000.0	5 ± 1.0	7 ± 1.5	8 ± 2.3	7 ± 0.7	10 ± 1.5
3333.0	8 ± 2.0	8 ± 0.6	8 ± 1.8	5 ± 2.6	7 ± 1.0
10000.0	7 ± 1.2	6 ± 2.1	4 ± 0.3	2 ± 0.3	5 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					116 ± 4.8
Positive Control <sup>3</sup>			65 ± 6.2	70 ± 4.9	
Positive Control <sup>5</sup>	233 ± 65.5	393 ± 18.0			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	6 ± 1.5
100.0	7 ± 1.5
333.0	7 ± 3.4
1000.0	10 ± 2.3
3333.0	3 ± 0.3
10000.0	3 ± 1.5
Trial Summary	Negative
Positive Control <sup>2</sup>	64 ± 3.0
Positive Control <sup>3</sup>	
Positive Control <sup>5</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 ± 3.3	16 ± 1.8	25 ± 3.2	30 ± 3.6	24 ± 0.9
100.0	17 ± 2.5	17 ± 0.6	26 ± 7.6	24 ± 3.5	29 ± 4.6
333.0	17 ± 2.0	14 ± 0.3	17 ± 2.3	23 ± 2.7	27 ± 5.7
1000.0	21 ± 2.3	20 ± 3.5	25 ± 2.6	28 ± 3.2	31 ± 5.0
3333.0	18 ± 2.0	19 ± 2.3	22 ± 3.0	14 ± 2.0	29 ± 5.4
10000.0	17 ± 1.8	14 ± 2.9	15 ± 4.3	14 ± 0.7	15 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					1227 ± 69.3
Positive Control <sup>3</sup>			851 ± 63.0	713 ± 28.9	
Positive Control <sup>6</sup>	1346 ± 25.6	1624 ± 51.9			



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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>	22 ± 3.7
100.0	28 ± 2.9
333.0	26 ± 2.9
1000.0	33 ± 2.5
3333.0	25 ± 1.2
10000.0	15 ± 1.2
Trial Summary	Negative
Positive Control <sup>2</sup>	943 ± 22.7
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

\*\* END OF REPORT \*\*