

Experiment Number: 296300

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2-(Dibutylamino)ethanol

CAS Number: 102-81-8

Date Report Requested: 09/11/2018

Time Report Requested: 21:29:37

**NTP Study Number:**

296300

**Study Result:**

Negative

Experiment Number: 296300

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

## G06: Ames Summary Data

Test Compound: 2-(Diethylamino)ethanol

CAS Number: 102-81-8

Date Report Requested: 09/11/2018

Time Report Requested: 21:29:37

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	131 ± 8.2	177 ± 9.2	114 ± 11.3	108 ± 6.4	162 ± 4.7
33.0	135 ± 3.7	169 ± 6.8	106 ± 7.2		151 ± 11.5
100.0	118 ± 5.0	171 ± 8.3	105 ± 2.7	106 ± 9.5	167 ± 4.7
333.0	121 ± 2.3	157 ± 8.1	96 ± 2.8	116 ± 9.8	138 ± 1.7
1000.0	127 ± 5.9	163 ± 6.6	95 ± 5.6	119 ± 3.0	162 ± 7.9
1600.0		143 ± 7.5 <sup>s</sup>	97 ± 1.8 <sup>s</sup>		
2222.0	Toxic				
3333.0				107 ± 5.9 <sup>s</sup>	149 ± 9.6 <sup>s</sup>
6666.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				648 ± 25.1	1080 ± 61.1
Positive Control <sup>4</sup>	1301 ± 4.3	1343 ± 98.2	960 ± 34.0		

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	102 ± 1.0	93 ± 5.0	157 ± 8.4	96 ± 4.5
33.0	90 ± 5.5		179 ± 2.4	91 ± 5.7
100.0	94 ± 5.7	88 ± 3.3	173 ± 8.2	94 ± 3.5
333.0	100 ± 9.5	101 ± 0.9	146 ± 7.9	105 ± 3.6
1000.0	93 ± 7.2 <sup>s</sup>	85 ± 2.6	146 ± 4.1	99 ± 6.9
1600.0				
2222.0				
3333.0	Toxic	93 ± 5.7 <sup>s</sup>	177 ± 1.5 <sup>s</sup>	105 ± 5.2 <sup>s</sup>
6666.0		Toxic		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>		722 ± 45.1	758 ± 26.7	958 ± 47.0
Positive Control <sup>3</sup>	1938 ± 46.3			
Positive Control <sup>4</sup>				

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## G06: Ames Summary Data

Test Compound: 2-(Dibutylamino)ethanol

CAS Number: 102-81-8

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	28 ± 1.5	57 ± 2.1	31 ± 3.2	10 ± 1.5	77 ± 5.2
33.0	29 ± 1.2	53 ± 3.7	29 ± 2.1		
100.0	30 ± 1.5	66 ± 1.5	31 ± 4.2	12 ± 1.2	82 ± 2.0
333.0	28 ± 4.5	59 ± 8.8	27 ± 4.4	8 ± 0.3	114 ± 9.1
1000.0	29 ± 1.2	54 ± 0.7	28 ± 5.5	9 ± 2.5	91 ± 2.1
1600.0		54 ± 6.3 <sup>s</sup>	25 ± 2.3 <sup>s</sup>		
2222.0	Toxic				
3333.0				10 ± 3.5	90 ± 3.5
5000.0					90 ± 11.8 <sup>s</sup>
6666.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				99 ± 4.2	199 ± 1.5
Positive Control <sup>4</sup>	877 ± 32.8	748 ± 26.6	675 ± 23.7		

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## Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 2.1	7 ± 0.6	88 ± 4.9	9 ± 2.3
33.0			86 ± 5.5	8 ± 1.9
100.0	13 ± 1.5	10 ± 2.5	75 ± 4.3	14 ± 1.2
333.0	13 ± 0.9	7 ± 1.2	75 ± 14.3	13 ± 1.3
1000.0	10 ± 1.2	10 ± 2.5	68 ± 2.8	10 ± 2.3
1600.0				
2222.0				
3333.0	11 ± 2.8	11 ± 2.2 <sup>s</sup>	61 ± 2.6 <sup>s</sup>	10 ± 1.8 <sup>s</sup>
5000.0	14 ± 1.5 <sup>s</sup>			
6666.0		Toxic		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>		164 ± 7.1	211 ± 13.1	91 ± 7.1
Positive Control <sup>3</sup>	109 ± 5.2			
Positive Control <sup>4</sup>				

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Test Compound: 2-(Dibutylamino)ethanol

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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>	6 ± 1.8	10 ± 0.6	7 ± 2.5	7 ± 0.7	5 ± 1.2
33.0	4 ± 1.3	10 ± 1.0			
100.0	8 ± 0.9	13 ± 2.4	6 ± 2.0	9 ± 1.0	6 ± 0.7
333.0	7 ± 0.3	11 ± 1.0	6 ± 0.9	9 ± 1.7	7 ± 0.3
1000.0	2 ± 0.6	12 ± 0.9	5 ± 0.3	11 ± 2.7	5 ± 1.7
1600.0		5 ± 1.7 <sup>s</sup>			
2222.0	5 ± 1.5 <sup>s</sup>				
3333.0			5 ± 1.5	9 ± 2.5	4 ± 0.9 <sup>s</sup>
5000.0				7 ± 0.9 <sup>s</sup>	
6666.0			Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					91 ± 14.9
Positive Control <sup>3</sup>			52 ± 3.3	83 ± 7.2	
Positive Control <sup>5</sup>	151 ± 16.8	359 ± 30.6			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 3.8
33.0	8 ± 2.0
100.0	15 ± 2.1
333.0	9 ± 1.7
1000.0	13 ± 2.2
1600.0	
2222.0	
3333.0	13 ± 0.3 <sup>s</sup>
5000.0	
6666.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	57 ± 5.0
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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## G06: Ames Summary Data

Test Compound: 2-(Dibutylamino)ethanol

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	18 ± 0.9	21 ± 3.8	15 ± 3.3	32 ± 2.6	30 ± 3.0
33.0	13 ± 2.2	19 ± 2.7	15 ± 2.2		
100.0	20 ± 2.4	22 ± 4.0	14 ± 2.3	31 ± 3.5	34 ± 2.6
333.0	16 ± 1.5	24 ± 1.0	17 ± 1.7	29 ± 5.2	29 ± 1.9
1000.0	17 ± 1.2	20 ± 1.3	11 ± 1.2	31 ± 6.3	33 ± 0.9
1600.0		22 ± 3.5	15 ± 0.9		
2222.0	11 ± 5.5 <sup>s</sup>				
3333.0				27 ± 0.3	26 ± 1.7
5000.0					33 ± 3.1
6666.0				17 ± 2.5 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>				474 ± 34.8	922 ± 27.2
Positive Control <sup>6</sup>	593 ± 15.8	788 ± 26.7	814 ± 30.1		



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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	37 ± 1.2	27 ± 2.9	27 ± 4.7	35 ± 4.1
33.0				
100.0	31 ± 1.0	32 ± 4.7	30 ± 0.3	26 ± 2.0
333.0	34 ± 2.0	28 ± 4.9	32 ± 3.1	29 ± 2.7
1000.0	31 ± 2.1	32 ± 5.4	25 ± 2.9	23 ± 1.2
1600.0				
2222.0				
3333.0	33 ± 3.3	28 ± 3.2	30 ± 1.0	29 ± 0.3 <sup>s</sup>
5000.0	20 ± 2.6 <sup>s</sup>		25 ± 0.3 <sup>s</sup>	Toxic
6666.0		Toxic		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>		874 ± 43.3	607 ± 31.0	803 ± 28.9
Positive Control <sup>3</sup>	1566 ± 9.9			
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 \*\***