

Experiment Number: 618477

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Dibenzofuran

CAS Number: 132-64-9

Date Report Requested: 09/15/2018

Time Report Requested: 07:44:04

**NTP Study Number:**

618477

**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>	140 ± 6.4	116 ± 19.3	206 ± 14.0	148 ± 20.5	196 ± 20.1
0.1		91 ± 14.1		116 ± 13.6	
0.3	152 ± 4.2		180 ± 3.8		198 ± 6.5
0.33		121 ± 5.7		153 ± 12.9	
1.0	153 ± 10.8	126 ± 3.5	229 ± 7.5	145 ± 9.5	202 ± 10.3
3.3	149 ± 10.0	116 ± 4.9	205 ± 7.1	147 ± 7.8	175 ± 5.8
10.0	114 ± 3.4	94 ± 2.4	175 ± 6.8	121 ± 6.4	194 ± 6.0
33.0	Toxic		194 ± 8.5		179 ± 11.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			2345 ± 87.8	1963 ± 146.2	3155 ± 27.0
Positive Control <sup>3</sup>	1274 ± 23.0	867 ± 19.3			

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Strain: TA100

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	152 ± 5.5
0.1	141 ± 4.3
0.3	
0.33	141 ± 10.7
1.0	136 ± 13.4
3.3	142 ± 7.2
10.0	146 ± 6.3
33.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	2180 ± 21.7
Positive Control <sup>3</sup>	

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**Strain: TA1535**

<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>	12 ± 0.9	10 ± 1.2	12 ± 1.2	11 ± 0.7	12 ± 0.9
0.1		10 ± 2.6		11 ± 1.5	
0.3	7 ± 0.6		9 ± 0.9		17 ± 0.6
0.33		13 ± 3.8		12 ± 1.5	
1.0	7 ± 1.2	8 ± 1.2	12 ± 0.5	15 ± 2.3	10 ± 0.9
3.3	6 ± 1.2	11 ± 2.8	11 ± 0.3	11 ± 2.3	21 ± 2.9
10.0	Toxic	9 ± 2.9	9 ± 0.9	8 ± 0.7	15 ± 0.6
33.0	Toxic		12 ± 0.9		16 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			232 ± 32.1	228 ± 38.1	385 ± 15.8
Positive Control <sup>3</sup>	1096 ± 45.2	921 ± 25.5			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 2.0
0.1	16 ± 2.2
0.3	
0.33	15 ± 3.2
1.0	10 ± 0.9
3.3	16 ± 4.5
10.0	13 ± 3.2
33.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	317 ± 11.5
Positive Control <sup>3</sup>	

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## G06: Ames Summary Data

Test Compound: Dibenzofuran

CAS Number: 132-64-9

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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>	8 ± 0.9	8 ± 1.2	13 ± 2.8	14 ± 1.3	13 ± 1.8
0.1		11 ± 0.9		17 ± 2.6	
0.3	10 ± 2.3		15 ± 1.0		13 ± 1.0
0.33		8 ± 1.7		17 ± 2.0	
1.0	7 ± 0.5	8 ± 2.3	16 ± 1.0	17 ± 0.7	12 ± 1.5
3.3	13 ± 2.0	10 ± 1.9	14 ± 1.0	14 ± 1.2	13 ± 0.7
10.0	9 ± 0.3	9 ± 1.5	17 ± 0.5	20 ± 0.6	15 ± 0.7
33.0	9 ± 0.7		18 ± 1.9		15 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			180 ± 20.7	375 ± 10.3	392 ± 13.3
Positive Control <sup>4</sup>	39 ± 11.7	682 ± 7.6			

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Strain: TA1537

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	18 ± 2.6
0.1	15 ± 1.9
0.3	
0.33	17 ± 1.3
1.0	16 ± 1.5
3.3	16 ± 2.5
10.0	16 ± 3.5
33.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	393 ± 6.7
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>	22 ± 3.5	19 ± 2.1	24 ± 2.9	27 ± 1.8	28 ± 1.7
0.1		20 ± 6.0		28 ± 3.3	
0.3	21 ± 1.2		29 ± 1.7		28 ± 0.6
0.33		27 ± 4.5		33 ± 0.9	
1.0	20 ± 0.9	23 ± 3.1	37 ± 2.5	26 ± 7.5	29 ± 0.3
3.3	14 ± 1.3	19 ± 3.7	29 ± 1.7	29 ± 2.8	24 ± 2.6
10.0	11 ± 1.5	17 ± 4.3	27 ± 2.2	29 ± 0.6	24 ± 1.0
33.0	Toxic		28 ± 1.7		28 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			1428 ± 25.5	1772 ± 14.5	1902 ± 38.9
Positive Control <sup>5</sup>	692 ± 9.8	512 ± 60.2			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	28 ± 0.5
0.1	26 ± 0.3
0.3	
0.33	27 ± 1.8
1.0	18 ± 5.5
3.3	30 ± 3.2
10.0	29 ± 5.0
33.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1619 ± 44.2
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 \*\***