

Experiment Number: 061158

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2,7-Dichlorodibenzo-p-dioxin

CAS Number: 33857-26-0

Date Report Requested: 09/10/2018

Time Report Requested: 17:42:10

**NTP Study Number:**

061158

**Study Result:**

Negative

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## 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>	95 ± 4.0	103 ± 3.5	96 ± 4.4	105 ± 4.7	90 ± 7.0
10.0		117 ± 6.8			
33.0	118 ± 4.3	106 ± 3.1		127 ± 10.7	
100.0	115 ± 14.0	118 ± 10.0	94 ± 8.5	118 ± 9.5	90 ± 6.7
333.0	116 ± 7.0 <sup>P</sup>	110 ± 4.7 <sup>P</sup>	94 ± 3.1	103 ± 11.4	88 ± 3.2
1000.0	108 ± 9.5 <sup>P</sup>	65 ± 13.4 <sup>S</sup>	115 ± 15.8 <sup>P</sup>	66 ± 9.5 <sup>P</sup>	84 ± 1.8 <sup>P</sup>
3333.0	0 ± 0.0 <sup>S</sup>		81 ± 4.0 <sup>P</sup>	59 ± 7.0 <sup>S</sup>	82 ± 1.9 <sup>P</sup>
6666.0					
10000.0			0 ± 0.0 <sup>S</sup>		35 ± 7.0 <sup>S</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			834 ± 34.7	554 ± 31.1	1821 ± 35.7
Positive Control <sup>3</sup>	341 ± 15.0	260 ± 14.2			

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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>	106 ± 3.1
10.0	
33.0	
100.0	102 ± 5.4
333.0	80 ± 6.7
1000.0	36 ± 14.9 <sup>P</sup>
3333.0	34 ± 8.8 <sup>P</sup>
6666.0	55 ± 4.2 <sup>S</sup>
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	1029 ± 74.8
Positive Control <sup>3</sup>	

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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 ± 2.1	36 ± 2.6	27 ± 3.2	10 ± 2.1	10 ± 1.9
10.0		17 ± 0.9	19 ± 1.7		
33.0	20 ± 3.5	17 ± 1.5	27 ± 2.2		4 ± 1.5
100.0	20 ± 2.0	16 ± 1.9	18 ± 1.2	6 ± 1.7	5 ± 1.9
333.0	17 ± 0.9 <sup>P</sup>	19 ± 0.7 <sup>P</sup>	21 ± 3.8 <sup>P</sup>	6 ± 1.0	3 ± 0.9
1000.0	12 ± 2.0 <sup>P</sup>	10 ± 2.4 <sup>S</sup>	19 ± 0.9 <sup>P</sup>	6 ± 1.8 <sup>P</sup>	3 ± 0.3 <sup>P</sup>
3333.0	0 ± 0.0 <sup>S</sup>			4 ± 1.2 <sup>P</sup>	3 ± 0.5 <sup>S</sup>
6666.0					
10000.0				0 ± 0.0 <sup>S</sup>	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	326 ± 10.7	504 ± 25.7	274 ± 13.1		
Positive Control <sup>4</sup>				272 ± 19.3	155 ± 9.3

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	6 ± 1.2	8 ± 1.9
10.0		
33.0		
100.0	11 ± 0.7	9 ± 2.4
333.0	9 ± 1.3	7 ± 1.2
1000.0	11 ± 2.2 <sup>P</sup>	2 ± 0.0 <sup>P</sup>
3333.0	7 ± 0.7 <sup>P</sup>	3 ± 0.7 <sup>P</sup>
6666.0		12 ± 1.2 <sup>S</sup>
10000.0	0 ± 0.0 <sup>S</sup>	
Trial Summary	Negative	Negative
Positive Control <sup>3</sup>		
Positive Control <sup>4</sup>	535 ± 7.5	489 ± 46.3

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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 ± 1.5	7 ± 0.9	8 ± 2.5	6 ± 1.7	7 ± 1.2
10.0		5 ± 0.3			
33.0	6 ± 1.0	8 ± 0.0		7 ± 0.7	
100.0	4 ± 0.3	4 ± 0.9	6 ± 1.5	7 ± 1.5	7 ± 1.5
333.0	5 ± 1.7 <sup>P</sup>	7 ± 1.2 <sup>P</sup>	5 ± 0.9	13 ± 1.5	5 ± 1.2
1000.0	8 ± 1.9 <sup>P</sup>	5 ± 0.9 <sup>S</sup>	8 ± 0.7 <sup>P</sup>	13 ± 2.7 <sup>P</sup>	4 ± 1.9 <sup>P</sup>
3333.0	0 ± 0.0 <sup>S</sup>		6 ± 0.6 <sup>P</sup>	10 ± 1.7 <sup>S</sup>	7 ± 2.2 <sup>P</sup>
6666.0					
10000.0			0 ± 0.0 <sup>S</sup>		4 ± 0.6 <sup>S</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			215 ± 12.0	139 ± 8.0	328 ± 25.3
Positive Control <sup>5</sup>	101 ± 8.8	145 ± 22.0			

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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>	5 ± 0.7
10.0	
33.0	
100.0	6 ± 0.6
333.0	6 ± 0.9
1000.0	5 ± 1.7 <sup>P</sup>
3333.0	4 ± 2.4 <sup>P</sup>
6666.0	11 ± 5.1 <sup>S</sup>
10000.0	
Trial Summary	Negative
Positive Control <sup>4</sup>	508 ± 24.3
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>	17 ± 4.6	18 ± 0.7	27 ± 4.9	27 ± 2.1	25 ± 1.9
10.0		16 ± 1.2			
33.0	12 ± 1.5	13 ± 2.5		27 ± 4.1	
100.0	12 ± 4.4	16 ± 2.4	25 ± 2.3	24 ± 3.6	23 ± 3.5
333.0	13 ± 3.5 <sup>P</sup>	15 ± 1.9 <sup>P</sup>	19 ± 4.5	27 ± 6.9	20 ± 2.5
1000.0	18 ± 4.0 <sup>P</sup>	14 ± 2.3 <sup>S</sup>	21 ± 1.7 <sup>P</sup>	26 ± 3.7 <sup>P</sup>	18 ± 0.9 <sup>P</sup>
3333.0	0 ± 0.0 <sup>S</sup>		25 ± 5.7 <sup>P</sup>	24 ± 3.3 <sup>S</sup>	25 ± 0.9 <sup>P</sup>
6666.0					
10000.0			3 ± 3.0 <sup>S</sup>		11 ± 1.5 <sup>S</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			785 ± 63.2	493 ± 23.4	1594 ± 28.5
Positive Control <sup>6</sup>	490 ± 7.8	1064 ± 5.0			



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Strain: TA98

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	34 ± 3.7
10.0	
33.0	
100.0	26 ± 4.4
333.0	24 ± 3.8
1000.0	30 ± 5.9 <sup>P</sup>
3333.0	17 ± 1.0 <sup>P</sup>
6666.0	19 ± 2.8 <sup>S</sup>
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	2031 ± 79.1
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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

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