

Experiment Number: 147825

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: p,p'-Dichlorodiphenyl sulfone

CAS Number: 80-07-9

Date Report Requested: 09/12/2018

Time Report Requested: 14:24:57

**NTP Study Number:**

147825

**Study Result:**

Negative

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Test Compound: p,p'-Dichlorodiphenyl sulfone  
CAS Number: 80-07-9

Date Report Requested: 09/12/2018

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	127 ± 15.1	110 ± 7.1	135 ± 7.2	159 ± 2.3	123 ± 8.0
10.0	121 ± 2.1	116 ± 8.2	118 ± 11.9	152 ± 2.1	134 ± 8.8
33.0	130 ± 3.8	90 ± 5.3	128 ± 10.2	171 ± 4.4	130 ± 8.3
100.0	104 ± 8.3 <sup>P</sup>	124 ± 0.6 <sup>P</sup>	121 ± 10.2 <sup>P</sup>	139 ± 4.1 <sup>P</sup>	155 ± 2.8 <sup>P</sup>
333.0	131 ± 0.9 <sup>P</sup>	105 ± 5.5 <sup>P</sup>	109 ± 7.2 <sup>P</sup>	164 ± 7.3 <sup>P</sup>	131 ± 7.3 <sup>P</sup>
1000.0	137 ± 3.0 <sup>P</sup>	128 ± 14.4 <sup>P</sup>	119 ± 5.9 <sup>P</sup>	165 ± 9.5 <sup>P</sup>	131 ± 4.7 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					479 ± 10.0
Positive Control <sup>3</sup>	561 ± 9.5	573 ± 13.5			
Positive Control <sup>4</sup>			1525 ± 64.2		
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>				491 ± 20.5	

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	161 ± 11.9
10.0	156 ± 9.4
33.0	143 ± 1.5
100.0	148 ± 7.4 <sup>p</sup>
333.0	158 ± 9.3 <sup>p</sup>
1000.0	149 ± 5.4 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	471 ± 15.7
Positive Control <sup>6</sup>	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 1.7	10 ± 0.6	Toxic	12 ± 1.7	11 ± 2.4
10.0	8 ± 0.9	9 ± 1.2	9 ± 1.2	12 ± 1.7	12 ± 2.3
33.0	9 ± 0.7	9 ± 0.9	8 ± 1.2	12 ± 1.2	9 ± 0.6
100.0	7 ± 0.7 <sup>P</sup>	12 ± 2.4 <sup>P</sup>	7 ± 1.5 <sup>P</sup>	13 ± 2.0 <sup>P</sup>	10 ± 1.8 <sup>P</sup>
333.0	9 ± 1.0 <sup>P</sup>	9 ± 1.2 <sup>P</sup>	9 ± 1.5 <sup>P</sup>	12 ± 1.3 <sup>P</sup>	7 ± 0.9 <sup>P</sup>
1000.0	11 ± 0.7 <sup>P</sup>	9 ± 1.7 <sup>P</sup>	6 ± 2.0 <sup>P</sup>	11 ± 2.4 <sup>P</sup>	7 ± 1.0 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					50 ± 8.6
Positive Control <sup>3</sup>	159 ± 15.4	371 ± 22.0			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>			158 ± 6.2	140 ± 9.1	

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	10 ± 1.5
10.0	13 ± 0.9
33.0	11 ± 0.3
100.0	11 ± 2.6 <sup>P</sup>
333.0	9 ± 2.2 <sup>P</sup>
1000.0	13 ± 2.3 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	66 ± 4.9
Positive Control <sup>6</sup>	

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	134 ± 5.3	151 ± 4.2	159 ± 4.7	188 ± 3.2	164 ± 5.8
10.0	127 ± 0.9	161 ± 8.0	133 ± 4.0	187 ± 5.5	157 ± 3.8
33.0	140 ± 5.2	158 ± 7.5	160 ± 5.4	193 ± 12.9	128 ± 5.9
100.0	125 ± 7.5 <sup>P</sup>	142 ± 7.3 <sup>P</sup>	166 ± 9.5 <sup>P</sup>	189 ± 5.6 <sup>P</sup>	161 ± 3.2 <sup>P</sup>
333.0	139 ± 16.8 <sup>P</sup>	141 ± 9.2 <sup>P</sup>	149 ± 19.0 <sup>P</sup>	180 ± 3.1 <sup>P</sup>	154 ± 6.9 <sup>P</sup>
1000.0	127 ± 8.1 <sup>P</sup>	125 ± 2.9 <sup>P</sup>	108 ± 5.9 <sup>P</sup>	185 ± 4.9 <sup>P</sup>	151 ± 8.4 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>					992 ± 8.1
Positive Control <sup>6</sup>			1719 ± 31.5	561 ± 39.8	
Positive Control <sup>7</sup>	353 ± 9.8	347 ± 9.6			

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	138 ± 4.3
10.0	145 ± 6.4
33.0	149 ± 5.1
100.0	160 ± 8.1 <sup>P</sup>
333.0	158 ± 7.4 <sup>P</sup>
1000.0	171 ± 2.4 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	661 ± 5.2
Positive Control <sup>7</sup>	

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Test Compound: p,p'-Dichlorodiphenyl sulfone  
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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	16 ± 1.5	15 ± 2.6	19 ± 0.9	24 ± 1.2	15 ± 1.3
10.0	10 ± 0.9	15 ± 2.7	18 ± 1.5	24 ± 2.7	20 ± 0.9
33.0	13 ± 2.0	11 ± 3.1	21 ± 2.0	27 ± 0.9	20 ± 2.2
100.0	13 ± 3.7 <sup>P</sup>	15 ± 1.9 <sup>P</sup>	18 ± 1.2 <sup>P</sup>	25 ± 1.2 <sup>P</sup>	18 ± 0.7 <sup>P</sup>
333.0	11 ± 1.5 <sup>P</sup>	16 ± 1.9 <sup>P</sup>	19 ± 0.3 <sup>P</sup>	26 ± 1.9 <sup>P</sup>	21 ± 2.8 <sup>P</sup>
1000.0	17 ± 1.8 <sup>P</sup>	11 ± 0.6 <sup>P</sup>	23 ± 1.7 <sup>P</sup>	33 ± 2.3 <sup>P</sup>	17 ± 2.6 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			458 ± 23.7		419 ± 33.2
Positive Control <sup>8</sup>	286 ± 17.5	278 ± 3.8			
Positive Control <sup>5</sup>				239 ± 8.1	



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	25 ± 5.2
10.0	27 ± 3.9
33.0	31 ± 1.0
100.0	22 ± 4.4 <sup>P</sup>
333.0	18 ± 1.9 <sup>P</sup>
1000.0	31 ± 5.4 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>8</sup>	
Positive Control <sup>5</sup>	465 ± 20.7

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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: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 24.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

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