

Experiment Number: A00825

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

G06: Ames Summary Data

Test Compound: **Diphenolic acid**

CAS Number: **126-00-1**

Date Report Requested: **09/15/2018**

Time Report Requested: **10:57:11**

NTP Study Number:

A00825

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	172 ± 2.0	119 ± 3.0	153 ± 12.0	197 ± 0.0	117 ± 1.2
33.0	143 ± 5.4	172 ± 20.0		203 ± 0.0	
67.0				170 ± 0.0	
100.0	172 ± 4.9	136 ± 3.5	154 ± 14.8	205 ± 0.0	123 ± 16.8
333.0	166 ± 1.5	165 ± 11.1	139 ± 1.0	167 ± 0.0	121 ± 6.8
667.0				168 ± 0.0	
1000.0	143 ± 4.6	167 ± 16.4	158 ± 10.6	164 ± 0.0	140 ± 3.2
2000.0	143 ± 9.5				
3333.0		105 ± 1.5 ^s	171 ± 1.8	152 ± 0.0	138 ± 10.3
6667.0				129 ± 0.0	
10000.0			4 ± 0.9 ^x	187 ± 0.0	0 ± 0.0 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					771 ± 68.8
Positive Control ³	637 ± 19.6	458 ± 13.9			
Positive Control ⁴					
Positive Control ⁵					
Positive Control ⁶			604 ± 42.5		
Positive Control ⁷				166 ± 0.0	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	168 ± 10.7
33.0	
67.0	
100.0	171 ± 9.4
333.0	154 ± 6.2
667.0	
1000.0	166 ± 19.3
2000.0	
3333.0	151 ± 3.5
6667.0	
10000.0	9 ± 7.3 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	783 ± 43.2
Positive Control ⁶	
Positive Control ⁷	

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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 ¹	17 ± 0.6	15 ± 0.9	16 ± 2.1	15 ± 3.5	14 ± 1.2
33.0		16 ± 0.9			
100.0	15 ± 2.7	17 ± 0.3	15 ± 0.3	15 ± 1.8	16 ± 0.6
333.0	18 ± 2.3	17 ± 0.7	16 ± 0.6	13 ± 0.9	17 ± 1.8
1000.0	21 ± 1.0	15 ± 0.9	17 ± 0.7	14 ± 2.6	14 ± 1.5
3333.0	5 ± 0.9 ^s	0 ± 0.0 ^s	15 ± 0.7	9 ± 0.9	18 ± 1.2
10000.0	Toxic		0 ± 0.0 ^x	7 ± 1.7 ^x	0 ± 0.0 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					163 ± 8.8
Positive Control ³	263 ± 11.4	250 ± 7.2			
Positive Control ⁵					
Positive Control ⁶			104 ± 4.7	186 ± 24.4	

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Mutagenicity

G06: Ames Summary Data

Test Compound: Diphenolic acid

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Date Report Requested: 09/15/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	15 ± 1.5
33.0	
100.0	12 ± 1.0
333.0	13 ± 1.5
1000.0	15 ± 1.9
3333.0	11 ± 0.7
10000.0	0 ± 0.0 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	280 ± 5.5
Positive Control ⁶	

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Mutagenicity**G06: Ames Summary Data**Test Compound: Diphenolic acid
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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	149 ± 9.2	112 ± 3.5	110 ± 3.5	143 ± 7.1	162 ± 7.5
33.0		138 ± 7.5			
100.0	149 ± 9.2	127 ± 16.1	143 ± 18.3	150 ± 5.0	161 ± 12.7
333.0	148 ± 13.6	125 ± 10.7	116 ± 12.9	158 ± 0.0	148 ± 2.8
1000.0	141 ± 12.4	126 ± 9.1	150 ± 12.3	147 ± 9.6	150 ± 9.2
2000.0				154 ± 20.3	
3333.0	26 ± 8.0 ^s	105 ± 11.7 ^s	129 ± 7.2	147 ± 9.4	113 ± 4.7
10000.0	Toxic		0 ± 0.0 ^x		0 ± 0.0 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					
Positive Control ⁶			502 ± 18.4	702 ± 21.2	675 ± 22.6
Positive Control ⁸	340 ± 10.1	427 ± 21.6			

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Test Compound: Diphenolic acid

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	135 ± 5.4	123 ± 13.4
33.0		
100.0	128 ± 11.1	152 ± 5.8
333.0	128 ± 12.9	135 ± 14.8
1000.0	146 ± 8.9	122 ± 7.4
2000.0		
3333.0	114 ± 7.2	126 ± 3.5
10000.0	0 ± 0.0 ^x	0 ± 0.0 ^x
Trial Summary	Negative	Negative
Positive Control ⁴	1032 ± 65.5	
Positive Control ⁶		716 ± 32.5
Positive Control ⁸		

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Mutagenicity**G06: Ames Summary Data**

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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 ¹	16 ± 1.5	14 ± 1.2	15 ± 0.3	25 ± 3.5	19 ± 4.0
33.0	10 ± 1.9	11 ± 1.0			
100.0	10 ± 3.6	16 ± 2.0	16 ± 0.6	23 ± 2.3	17 ± 1.5
333.0	15 ± 3.1	18 ± 0.3	17 ± 0.9	22 ± 2.3	19 ± 0.7
1000.0	10 ± 1.5	18 ± 0.9	17 ± 0.9	29 ± 2.5	20 ± 2.0
2000.0	13 ± 3.1				
3333.0		12 ± 1.2	17 ± 2.5	27 ± 0.9	18 ± 1.5
10000.0			0 ± 0.0 ^x	5 ± 1.5 ^x	0 ± 0.0 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			217 ± 23.5		878 ± 170.4
Positive Control ⁵				442 ± 22.9	
Positive Control ⁹	100 ± 7.2	81 ± 12.7			

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Test Compound: Diphenolic acid
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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	25 ± 0.6
33.0	
100.0	22 ± 2.0
333.0	20 ± 3.8
1000.0	25 ± 3.2
2000.0	
3333.0	21 ± 3.2
10000.0	3 ± 1.9 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ⁵	1015 ± 76.3
Positive Control ⁹	

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LEGEND

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: Acetone

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: 10.0 ug/Plate Solvent

8: 24.0 ug/Plate 9-Aminoacridine

9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

x: Slight Toxicity and Precipitate

**** END OF REPORT ****