

Experiment Number: **809658**

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

G06: Ames Summary Data

Test Compound: **4,4'-Dimethoxydiphenylamine**

CAS Number: **101-70-2**

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

Time Report Requested: **09:53:03**

NTP Study Number:

809658

Study Result:

Negative

Experiment Number: 809658

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Test Compound: 4,4'-Dimethoxydiphenylamine
CAS Number: 101-70-2

Date Report Requested: 09/15/2018

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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 ¹	109 ± 10.1	109 ± 14.2	109 ± 10.7	130 ± 9.5	95 ± 7.2
100.0	103 ± 10.5	104 ± 6.7	101 ± 6.2	109 ± 3.2	95 ± 9.0
333.0	104 ± 10.4	80 ± 2.0	122 ± 7.9	89 ± 8.0	88 ± 6.6
1000.0	91 ± 5.8 ^p	84 ± 11.3 ^p	113 ± 14.6 ^p	92 ± 4.0 ^p	93 ± 4.2 ^p
3333.0	84 ± 10.2 ^p	80 ± 7.2 ^p	105 ± 1.5 ^p	91 ± 1.5 ^p	112 ± 0.7 ^p
10000.0	81 ± 1.5 ^p	79 ± 5.2 ^p	91 ± 18.6 ^p	91 ± 8.5 ^p	88 ± 6.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					811 ± 46.6
Positive Control ³	762 ± 20.7	330 ± 14.3			
Positive Control ⁴			410 ± 5.0	250 ± 7.5	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	141 ± 5.8
100.0	122 ± 5.9
333.0	140 ± 4.7
1000.0	126 ± 9.3 ^p
3333.0	113 ± 10.9 ^p
10000.0	111 ± 7.9 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	298 ± 6.7

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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	21 ± 2.3	27 ± 1.7	8 ± 2.1	10 ± 1.9	13 ± 2.6
100.0	17 ± 2.6	20 ± 1.9	7 ± 0.0	9 ± 0.9	12 ± 4.0
333.0	16 ± 3.3	6 ± 1.0	10 ± 1.2	10 ± 0.3	12 ± 2.0
1000.0	9 ± 1.2 ^p	9 ± 2.0 ^p	7 ± 1.7 ^p	6 ± 0.3 ^p	13 ± 3.5 ^p
3333.0	7 ± 0.0 ^p	8 ± 1.8 ^p	7 ± 1.2 ^p	8 ± 1.5 ^p	8 ± 0.9 ^p
10000.0	10 ± 1.5 ^p	8 ± 1.8 ^p	6 ± 0.7 ^p	5 ± 0.9 ^p	10 ± 0.9 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					225 ± 3.7
Positive Control ³	592 ± 12.8	232 ± 14.9			
Positive Control ⁵			127 ± 16.2	94 ± 5.1	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 0.3
100.0	9 ± 2.3
333.0	8 ± 2.0
1000.0	12 ± 1.5 ^p
3333.0	10 ± 1.2 ^p
10000.0	5 ± 0.9 ^p
Trial Summary	Negative
Positive Control ⁴	
Positive Control ³	
Positive Control ⁵	223 ± 11.8

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Date Report Requested: 09/15/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	132 ± 9.8	184 ± 10.2	177 ± 5.2	146 ± 5.0	137 ± 11.2
3.0	137 ± 13.0		168 ± 10.0		
10.0	144 ± 5.0		175 ± 10.8		
33.0	137 ± 9.3		182 ± 8.9		164 ± 6.7
100.0	129 ± 7.6	143 ± 8.4	174 ± 11.8	160 ± 6.0	156 ± 10.2
166.0	105 ± 10.4 ^s				
333.0		87 ± 11.6	135 ± 6.9	140 ± 12.0	156 ± 19.5
1000.0		61 ± 6.1 ^p		102 ± 5.5 ^p	122 ± 23.4 ^p
3333.0		53 ± 9.0 ^p		87 ± 7.3 ^p	94 ± 4.7 ^p
10000.0		62 ± 9.0 ^p		78 ± 8.3 ^p	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				387 ± 28.0	
Positive Control ⁴		293 ± 14.6			265 ± 24.5
Positive Control ⁵			247 ± 22.8		
Positive Control ⁶	550 ± 19.9				

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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	18 ± 0.6	14 ± 2.2	21 ± 2.1	26 ± 2.2	26 ± 5.8
100.0	13 ± 1.2	19 ± 3.2	18 ± 0.9	30 ± 3.2	33 ± 4.7
333.0	11 ± 2.7	14 ± 2.0	21 ± 2.5	24 ± 2.1	17 ± 0.6
1000.0	10 ± 2.0 ^p	8 ± 1.9 ^p	18 ± 1.8 ^p	27 ± 1.0 ^p	25 ± 3.2 ^p
3333.0	7 ± 2.4 ^p	9 ± 2.2 ^p	20 ± 2.0 ^p	14 ± 2.7 ^p	18 ± 5.0 ^p
10000.0	7 ± 1.9 ^p	13 ± 1.2 ^p	12 ± 0.6 ^p	17 ± 1.8 ^p	15 ± 3.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					698 ± 66.8
Positive Control ⁴			313 ± 8.0	124 ± 9.2	
Positive Control ⁷	563 ± 23.2	394 ± 16.8			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	30 ± 2.6
100.0	33 ± 3.8
333.0	35 ± 3.3
1000.0	31 ± 4.4 ^p
3333.0	17 ± 2.9 ^p
10000.0	22 ± 2.3 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	289 ± 7.3
Positive Control ⁷	

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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: Dimethyl Sulfoxide

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****