

Experiment Number: 111338

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

**G06: Ames Summary Data**

Test Compound: **4,4'-Diphenylmethane diisocyanate**

CAS Number: **101-68-8**

Date Report Requested: **09/11/2018**

Time Report Requested: **19:41:32**

**NTP Study Number:**

111338

**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>	90 ± 5.3	89 ± 2.5	76 ± 5.8	143 ± 3.2	76 ± 4.7
100.0	90 ± 10.0	98 ± 5.2	79 ± 4.2	107 ± 13.2	102 ± 2.2
333.0	104 ± 8.0	101 ± 4.9 <sup>P</sup>	63 ± 9.2 <sup>P</sup>	113 ± 4.9 <sup>P</sup>	125 ± 7.5 <sup>P</sup>
1000.0	80 ± 3.2 <sup>P</sup>	107 ± 5.2 <sup>P</sup>	56 ± 1.7 <sup>P</sup>	114 ± 3.4 <sup>P</sup>	45 ± 5.4 <sup>P</sup>
3333.0	22 ± 4.4 <sup>P</sup>	107 ± 2.0 <sup>P</sup>	46 ± 3.4 <sup>P</sup>	106 ± 3.8 <sup>P</sup>	40 ± 8.7 <sup>P</sup>
10000.0	10 ± 0.0 <sup>P</sup>	101 ± 4.0 <sup>P</sup>	35 ± 3.2 <sup>P</sup>	104 ± 5.0 <sup>P</sup>	32 ± 5.0 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			677 ± 93.8	1371 ± 206.2	1412 ± 209.5
Positive Control <sup>3</sup>	376 ± 94.5	929 ± 81.5			

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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>	128 ± 5.2
100.0	175 ± 7.9
333.0	123 ± 5.1 <sup>P</sup>
1000.0	106 ± 7.4 <sup>P</sup>
3333.0	131 ± 1.0 <sup>P</sup>
10000.0	107 ± 6.7 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	1924 ± 79.9
Positive Control <sup>3</sup>	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	7 ± 0.6	19 ± 0.6	4 ± 0.9	16 ± 0.9	8 ± 1.5
33.0		28 ± 1.2			
100.0	6 ± 0.9	25 ± 4.0	4 ± 1.0	34 ± 2.6	8 ± 0.7
333.0	5 ± 1.2	21 ± 2.4 <sup>P</sup>	4 ± 0.3 <sup>P</sup>	26 ± 0.9 <sup>P</sup>	9 ± 0.6
1000.0	7 ± 0.3 <sup>P</sup>	22 ± 1.8 <sup>P</sup>	4 ± 0.9 <sup>P</sup>	23 ± 1.7 <sup>P</sup>	9 ± 0.3 <sup>P</sup>
3333.0	4 ± 1.2 <sup>P</sup>	20 ± 1.2 <sup>P</sup>	2 ± 0.6 <sup>P</sup>	16 ± 3.5 <sup>P</sup>	7 ± 0.9 <sup>P</sup>
10000.0	0 ± 0.0 <sup>P</sup>		1 ± 0.3 <sup>P</sup>	20 ± 1.5 <sup>P</sup>	0 ± 0.0 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			123 ± 9.5	120 ± 7.4	141 ± 20.8
Positive Control <sup>3</sup>	1050 ± 35.8	548 ± 109.5			

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	16 ± 3.5
33.0	15 ± 2.8
100.0	21 ± 2.2
333.0	20 ± 2.1 <sup>P</sup>
1000.0	19 ± 0.7 <sup>P</sup>
3333.0	18 ± 1.3 <sup>P</sup>
10000.0	
Trial Summary	Negative
Positive Control <sup>2</sup>	137 ± 1.2
Positive Control <sup>3</sup>	

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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>	2 ± 0.9	15 ± 5.0	7 ± 0.9	22 ± 3.5	6 ± 1.9
10.0		11 ± 2.6			
33.0		14 ± 1.5			
100.0	2 ± 0.6	17 ± 4.3	6 ± 1.5	17 ± 1.5	4 ± 1.2
333.0	1 ± 0.9 <sup>P</sup>	17 ± 1.5 <sup>P</sup>	6 ± 1.3 <sup>P</sup>	18 ± 1.0 <sup>P</sup>	4 ± 1.9 <sup>P</sup>
1000.0	2 ± 1.0 <sup>P</sup>	18 ± 1.2 <sup>P</sup>	5 ± 1.2 <sup>P</sup>	20 ± 0.7 <sup>P</sup>	3 ± 0.6 <sup>P</sup>
3333.0	0 ± 0.0 <sup>P</sup>		3 ± 0.9 <sup>P</sup>	20 ± 2.1 <sup>P</sup>	3 ± 0.9 <sup>P</sup>
10000.0	0 ± 0.0 <sup>P</sup>		3 ± 0.6 <sup>P</sup>	17 ± 2.2 <sup>P</sup>	4 ± 0.6 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			58 ± 3.0	179 ± 35.5	74 ± 3.5
Positive Control <sup>4</sup>	432 ± 12.9	266 ± 44.8			

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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>	25 ± 1.3
10.0	
33.0	
100.0	21 ± 1.2
333.0	23 ± 2.7 <sup>P</sup>
1000.0	20 ± 3.5 <sup>P</sup>
3333.0	22 ± 1.3 <sup>P</sup>
10000.0	16 ± 1.5 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	98 ± 11.3
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>	11 ± 0.7	30 ± 3.8	22 ± 1.5	35 ± 1.9	17 ± 1.2
100.0	8 ± 0.7	38 ± 1.3	14 ± 2.7	40 ± 1.5	20 ± 3.1
333.0	6 ± 1.2 <sup>p</sup>	33 ± 1.2 <sup>p</sup>	19 ± 4.5 <sup>p</sup>	39 ± 2.0 <sup>p</sup>	18 ± 2.6 <sup>p</sup>
1000.0	7 ± 2.8 <sup>p</sup>	30 ± 1.5 <sup>p</sup>	11 ± 1.2 <sup>p</sup>	38 ± 1.5 <sup>p</sup>	12 ± 2.8 <sup>p</sup>
3333.0	5 ± 0.6 <sup>p</sup>	34 ± 1.3 <sup>p</sup>	11 ± 0.5 <sup>p</sup>	40 ± 0.9 <sup>p</sup>	11 ± 3.2 <sup>p</sup>
10000.0	5 ± 1.2 <sup>p</sup>	29 ± 0.9 <sup>p</sup>	13 ± 3.2 <sup>p</sup>	30 ± 0.3 <sup>p</sup>	12 ± 1.5 <sup>p</sup>
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			576 ± 68.6	1162 ± 137.1	918 ± 202.4
Positive Control <sup>5</sup>	141 ± 21.1	502 ± 117.9			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	40 ± 2.0
100.0	51 ± 5.0
333.0	39 ± 0.3 <sup>P</sup>
1000.0	38 ± 1.9 <sup>P</sup>
3333.0	36 ± 0.9 <sup>P</sup>
10000.0	31 ± 1.2 <sup>P</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	2024 ± 223.0
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

p: Precipitate

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