

Experiment Number: 635339

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

**G06: Ames Summary Data**

Test Compound: **2,6-Diisocyanatotoluene**

CAS Number: **91-08-7**

Date Report Requested: **09/10/2018**

Time Report Requested: **22:50:45**

**NTP Study Number:**

635339

**Study Result:**

Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	88 ± 2.3	97 ± 4.6	129 ± 2.6	99 ± 6.4	162 ± 5.8
3.0				96 ± 7.8	156 ± 18.6
10.0		96 ± 6.1		112 ± 6.4	178 ± 5.1
33.0		93 ± 5.7		136 ± 12.3	202 ± 2.0
100.0	94 ± 12.3	97 ± 3.5	160 ± 17.7	167 ± 3.8	251 ± 8.8
333.0	82 ± 8.5 <sup>P</sup>	91 ± 1.7 <sup>P</sup>	189 ± 6.0 <sup>P</sup>	198 ± 8.6 <sup>P</sup>	253 ± 17.8 <sup>P</sup>
666.0		95 ± 7.8 <sup>P</sup>			
1000.0	42 ± 6.5 <sup>P</sup>		135 ± 10.1 <sup>P</sup>		
3333.0	0 ± 0.0 <sup>S</sup>		163 ± 13.7 <sup>P</sup>		
6666.0	Toxic				
10000.0			112 ± 3.1 <sup>P</sup>		
Trial Summary	Negative	Negative	Equivocal	Positive	Weakly Positive
Positive Control <sup>2</sup>			412 ± 17.2	576 ± 4.8	586 ± 21.1
Positive Control <sup>3</sup>	655 ± 17.1	361 ± 20.4			

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## Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	141 ± 7.2	91 ± 3.1	162 ± 14.4
3.0		125 ± 2.9	189 ± 4.7
10.0		127 ± 5.5	212 ± 4.2
33.0		197 ± 9.0	261 ± 7.4
100.0	174 ± 7.2	240 ± 8.1	312 ± 4.9
333.0	215 ± 14.2 <sup>P</sup>	254 ± 14.4 <sup>P</sup>	327 ± 4.9 <sup>P</sup>
666.0			
1000.0	186 ± 11.0 <sup>P</sup>		
3333.0	142 ± 18.5 <sup>P</sup>		
6666.0			
10000.0	125 ± 10.9 <sup>P</sup>		
Trial Summary	Equivocal	Positive	Positive
Positive Control <sup>2</sup>	1411 ± 107.0	2023 ± 28.8	1490 ± 135.4
Positive Control <sup>3</sup>			

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	30 ± 3.8	8 ± 2.2	8 ± 1.3	9 ± 2.5
10.0		6 ± 0.9		
33.0		7 ± 1.2		
100.0	20 ± 2.8	6 ± 0.9	8 ± 1.3	9 ± 0.3
333.0	19 ± 2.0 <sup>P</sup>	7 ± 0.7 <sup>P</sup>	7 ± 0.6 <sup>P</sup>	9 ± 0.7 <sup>P</sup>
666.0		9 ± 1.8 <sup>P</sup>		
1000.0	5 ± 3.2 <sup>P</sup>		5 ± 1.5 <sup>P</sup>	4 ± 1.8 <sup>P</sup>
3333.0	0 ± 0.0 <sup>S</sup>		3 ± 0.7 <sup>P</sup>	5 ± 1.5 <sup>P</sup>
6666.0	Toxic			
10000.0			3 ± 1.7 <sup>X</sup>	5 ± 1.9 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	469 ± 18.3	143 ± 11.9		
Positive Control <sup>4</sup>			142 ± 7.2	395 ± 13.9

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Strain: TA97				
Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	161 ± 1.7	102 ± 16.2	185 ± 8.5	175 ± 6.2
10.0		135 ± 0.9		
33.0		118 ± 7.9		
100.0	145 ± 6.5	97 ± 10.1	156 ± 10.5	184 ± 10.3
333.0	128 ± 5.5 <sup>P</sup>	112 ± 4.5 <sup>P</sup>	143 ± 25.7 <sup>P</sup>	223 ± 17.6 <sup>P</sup>
666.0		91 ± 9.8 <sup>P</sup>		
1000.0	36 ± 17.9 <sup>P</sup>		115 ± 22.9 <sup>P</sup>	150 ± 13.2 <sup>P</sup>
3333.0	Toxic		121 ± 17.3 <sup>P</sup>	193 ± 8.2 <sup>P</sup>
6666.0	Toxic			
10000.0			124 ± 21.5 <sup>X</sup>	116 ± 51.1 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Equivocal
Positive Control <sup>4</sup>			576 ± 62.2	1421 ± 6.1
Positive Control <sup>5</sup>	1013 ± 119.4	1353 ± 56.7		

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	11 ± 1.2	12 ± 2.1	21 ± 2.2	23 ± 1.2	31 ± 0.9
3.0				26 ± 0.6	35 ± 3.2
10.0		10 ± 1.7		32 ± 2.1	50 ± 8.5
33.0		11 ± 1.9		49 ± 1.2	65 ± 0.9
100.0	9 ± 0.7	10 ± 2.6	72 ± 4.5	70 ± 3.4	84 ± 0.3
333.0	8 ± 1.2 <sup>p</sup>	14 ± 2.5 <sup>p</sup>	81 ± 6.8 <sup>p</sup>	92 ± 3.6 <sup>p</sup>	106 ± 6.8 <sup>p</sup>
666.0		16 ± 1.2 <sup>p</sup>			
1000.0	7 ± 2.0 <sup>x</sup>		55 ± 17.4 <sup>p</sup>		
3333.0	Toxic		43 ± 2.2 <sup>p</sup>		
6666.0	Toxic				
10000.0			37 ± 6.2 <sup>p</sup>		
Trial Summary	Negative	Negative	Positive	Positive	Positive
Positive Control <sup>2</sup>			187 ± 24.8	315 ± 4.7	286 ± 44.2
Positive Control <sup>6</sup>	939 ± 32.2	1461 ± 22.3			

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## Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	28 ± 4.2	25 ± 3.6	38 ± 2.3
3.0		41 ± 1.5	60 ± 5.1
10.0		60 ± 2.3	75 ± 1.5
33.0		84 ± 4.3	117 ± 7.1
100.0	95 ± 7.2	127 ± 9.5	155 ± 5.0
333.0	123 ± 9.2 <sup>P</sup>	161 ± 21.2 <sup>P</sup>	170 ± 12.3 <sup>P</sup>
666.0			
1000.0	101 ± 7.0 <sup>P</sup>		
3333.0	126 ± 8.2 <sup>P</sup>		
6666.0			
10000.0	41 ± 6.6 <sup>P</sup>		
Trial Summary	Positive	Positive	Positive
Positive Control <sup>2</sup>	663 ± 332.0	1476 ± 46.4	993 ± 39.6
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

x: Slight Toxicity and Precipitate

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