

Experiment Number: A06845

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2,3-Dinitrotoluene

CAS Number: 602-01-7

Date Report Requested: 09/15/2018

Time Report Requested: 15:53:58

**NTP Study Number:**

A06845

**Study Result:**

Positive

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Test Type: **Genetic Toxicology - Bacterial  
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Test Compound: 2,3-Dinitrotoluene

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	91 ± 1.2	118 ± 13.5	105 ± 4.8	115 ± 8.8	110 ± 10.9
10.0		127 ± 12.5			120 ± 14.8
33.0	110 ± 2.7	119 ± 6.8			99 ± 11.2
100.0	121 ± 8.5	130 ± 6.3	91 ± 2.7	125 ± 10.8	129 ± 8.2
333.0	137 ± 2.0	180 ± 10.4	99 ± 2.6	134 ± 13.5	118 ± 6.2
500.0		224 ± 7.1 <sup>P</sup>			114 ± 8.9 <sup>P</sup>
667.0	98 ± 4.1		88 ± 3.5	107 ± 9.5	
725.0	93 ± 27.3 <sup>X</sup>				
1000.0			77 ± 5.1	104 ± 8.2	
1500.0			65 ± 14.4 <sup>P</sup>	170 ± 15.3 <sup>P</sup>	
Trial Summary	Positive	Weakly Positive	Negative	Equivocal	Negative
Positive Control <sup>2</sup>	302 ± 17.6	470 ± 22.4			
Positive Control <sup>3</sup>				769 ± 59.8	490 ± 24.4
Positive Control <sup>4</sup>			365 ± 13.7		

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	16 ± 1.5	15 ± 2.0	16 ± 2.3	19 ± 1.7	16 ± 0.9
33.0	22 ± 1.7	16 ± 3.0			22 ± 0.7
67.0		24 ± 1.2			28 ± 3.0
100.0	48 ± 5.4	58 ± 3.5	20 ± 2.9	33 ± 4.2	33 ± 2.5
200.0		106 ± 12.4			57 ± 6.7
333.0	39 ± 6.1	87 ± 6.7 <sup>P</sup>	18 ± 3.8	21 ± 2.0	41 ± 10.7 <sup>P</sup>
667.0	45 ± 3.7		12 ± 0.3	16 ± 1.8	
725.0	43 ± 3.5				
1000.0			21 ± 2.0	14 ± 2.7	
1500.0			16 ± 2.9 <sup>P</sup>	15 ± 6.6 <sup>P</sup>	
Trial Summary	Positive	Positive	Negative	Equivocal	Positive
Positive Control <sup>3</sup>			134 ± 28.3	684 ± 63.5	1063 ± 100.2
Positive Control <sup>5</sup>	66 ± 24.2	153 ± 23.4			

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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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

x: Slight Toxicity and Precipitate

\*\* END OF REPORT \*\*