

Experiment Number: A44650

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: m-Dinitrobenzene

CAS Number: 99-65-0

Date Report Requested: 09/17/2018

Time Report Requested: 00:54:44

**NTP Study Number:**

A44650

**Study Result:**

Positive

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## G06: Ames Summary Data

Test Compound: m-Dinitrobenzene

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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	94 ± 6.0	90 ± 6.4	104 ± 6.0	90 ± 3.9	93 ± 8.1
3.0		107 ± 2.0			
10.0	134 ± 7.9	154 ± 6.0	111 ± 2.6	103 ± 7.0	101 ± 6.3
33.0	211 ± 8.1	221 ± 4.6	97 ± 6.2	103 ± 5.2	82 ± 35.6
100.0	469 ± 10.8	406 ± 10.9	128 ± 15.6	115 ± 4.5	149 ± 6.0
333.0	787 ± 67.9	707 ± 9.4	190 ± 6.2	239 ± 14.9	185 ± 6.4
1000.0	Toxic		272 ± 6.2	296 ± 3.9	477 ± 19.8
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					1439 ± 51.9
Positive Control <sup>3</sup>	878 ± 50.0	836 ± 16.4			
Positive Control <sup>4</sup>			525 ± 17.2	574 ± 34.9	

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Strain: TA100

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	101 ± 2.8
3.0	
10.0	100 ± 4.3
33.0	120 ± 1.8
100.0	128 ± 3.7
333.0	174 ± 11.1
1000.0	388 ± 10.7
Trial Summary	Positive
Positive Control <sup>2</sup>	643 ± 14.2
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 0.7	29 ± 4.3	23 ± 2.2	16 ± 2.0	20 ± 1.5
3.0		43 ± 7.8		25 ± 2.1	
10.0	57 ± 9.0	68 ± 9.9	44 ± 5.7	55 ± 6.7	77 ± 6.9
33.0	78 ± 4.7	149 ± 1.9	74 ± 3.8	114 ± 4.6	134 ± 8.0
66.0		346 ± 10.4		130 ± 6.7	
100.0	383 ± 29.7	422 ± 26.2	75 ± 10.1	143 ± 3.2	170 ± 15.4
333.0	1023 ± 20.7		564 ± 23.1		354 ± 27.6
1000.0	Toxic		1111 ± 104.8		1467 ± 87.7
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					469 ± 13.1
Positive Control <sup>5</sup>	498 ± 12.9	229 ± 18.9			
Positive Control <sup>4</sup>			391 ± 28.6	431 ± 22.6	

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	20 ± 3.0
3.0	26 ± 2.9
10.0	74 ± 9.2
33.0	122 ± 9.4
66.0	132 ± 6.6
100.0	217 ± 13.3
333.0	
1000.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	507 ± 3.6
Positive Control <sup>5</sup>	
Positive Control <sup>4</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: 2.0 ug/Plate 2-Aminoanthracene
- 3: 5.0 ug/Plate Sodium Azide
- 4: 5.0 ug/Plate 2-Aminoanthracene
- 5: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

\*\* END OF REPORT \*\*