

Experiment Number: 153433

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

**G06: Ames Summary Data**

Test Compound: **1,3-Dimethyl-4-nitrobenzene**

CAS Number: **89-87-2**

Date Report Requested: **09/12/2018**

Time Report Requested: **20:18:10**

**NTP Study Number:**

153433

**Study Result:**

Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	141 ± 11.5	144 ± 2.5	113 ± 0.9	142 ± 3.8	147 ± 2.6
1.0	134 ± 8.8				
3.0	110 ± 10.4				
10.0	121 ± 5.2	143 ± 21.5	122 ± 9.7	168 ± 9.5	138 ± 13.4
33.0	137 ± 16.8	146 ± 9.4	130 ± 3.5	234 ± 5.9	181 ± 6.8
100.0	159 ± 9.7	171 ± 9.0	144 ± 9.6	411 ± 22.0	289 ± 13.7
166.0			152 ± 8.3		350 ± 18.8
333.0		238 ± 10.4 <sup>s</sup>	205 ± 10.8 <sup>s</sup>	598 ± 22.3 <sup>s</sup>	533 ± 16.5 <sup>s</sup>
1000.0		0 ± 0.0 <sup>s</sup>		0 ± 0.0 <sup>s</sup>	
Trial Summary	Negative	Equivocal	Positive	Positive	Positive
Positive Control <sup>2</sup>				1329 ± 24.8	501 ± 75.1
Positive Control <sup>3</sup>		1007 ± 35.3	689 ± 15.1		
Positive Control <sup>4</sup>	694 ± 18.1				

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	41 ± 4.9	12 ± 1.5	11 ± 2.6
1.0	44 ± 2.3		
3.0	34 ± 1.5		
10.0	41 ± 4.3	15 ± 3.7	16 ± 2.4
33.0	44 ± 3.7	11 ± 3.6	15 ± 1.5
100.0	25 ± 0.9 <sup>s</sup>	11 ± 0.6	24 ± 1.5
333.0		10 ± 5.2 <sup>s</sup>	17 ± 3.2 <sup>s</sup>
1000.0		1 ± 0.7 <sup>s</sup>	6 ± 1.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>			431 ± 5.5
Positive Control <sup>4</sup>	795 ± 12.9		
Positive Control <sup>5</sup>		291 ± 3.4	

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## Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	155 ± 8.8	169 ± 4.5	187 ± 7.5
1.0	191 ± 8.2		
3.0	177 ± 9.3		
10.0	185 ± 14.7	175 ± 6.4	167 ± 4.5
33.0	178 ± 7.2	146 ± 9.7	206 ± 15.6
100.0	135 ± 9.8 <sup>s</sup>	150 ± 10.9	202 ± 2.0
333.0		141 ± 6.2 <sup>s</sup>	201 ± 13.0 <sup>s</sup>
1000.0		48 ± 8.1 <sup>s</sup>	107 ± 11.8 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			910 ± 42.6
Positive Control <sup>3</sup>		666 ± 36.9	
Positive Control <sup>6</sup>	1514 ± 22.1		

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## Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	23 ± 3.7	34 ± 1.5	44 ± 3.6
1.0	22 ± 4.2		
3.0	24 ± 0.7		
10.0	26 ± 3.8	35 ± 2.2	44 ± 4.6
33.0	23 ± 4.4	32 ± 3.9	47 ± 7.4
100.0	21 ± 1.2 <sup>s</sup>	28 ± 2.7	51 ± 4.0
333.0		16 ± 8.0 <sup>s</sup>	60 ± 5.2 <sup>s</sup>
1000.0		0 ± 0.0 <sup>s</sup>	5 ± 2.9 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			1061 ± 80.4
Positive Control <sup>3</sup>		661 ± 16.0	
Positive Control <sup>7</sup>	973 ± 20.8		

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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 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

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