

Experiment Number: 631982

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: N,N-Dimethyl-p-nitrosoaniline

CAS Number: 138-89-6

Date Report Requested: 09/10/2018

Time Report Requested: 22:16:14

**NTP Study Number:**

631982

**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% Hamster S9
Vehicle Control <sup>1</sup>	104 ± 9.1	151 ± 1.2	112 ± 8.5	124 ± 12.5	105 ± 1.7
0.3	114 ± 5.6				
1.0	106 ± 6.7	156 ± 11.9			
3.3	136 ± 13.0	182 ± 3.7	101 ± 1.5		104 ± 5.9
5.0		215 ± 9.7			
8.0		269 ± 6.1			
10.0	193 ± 6.7 <sup>s</sup>	293 ± 4.9	122 ± 3.7		115 ± 9.5
22.0	Toxic				
33.0			133 ± 7.5	157 ± 9.7	173 ± 11.7
50.0				167 ± 8.8	
100.0			153 ± 4.8	279 ± 6.4	349 ± 10.9
200.0				460 ± 39.9 <sup>s</sup>	
333.0			304 ± 0.9	Toxic	411 ± 14.3 <sup>s</sup>
Trial Summary	Equivocal	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					973 ± 96.2
Positive Control <sup>3</sup>			716 ± 6.7	1370 ± 54.4	
Positive Control <sup>4</sup>	2026 ± 32.2	2735 ± 71.0			

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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>	114 ± 8.8
0.3	
1.0	
3.3	
5.0	
8.0	
10.0	
22.0	
33.0	285 ± 1.8
50.0	339 ± 7.2
100.0	430 ± 17.8
200.0	734 ± 29.7
333.0	851 ± 28.8 <sup>s</sup>
Trial Summary	Positive
Positive Control <sup>2</sup>	2992 ± 82.5
Positive Control <sup>3</sup>	
Positive Control <sup>4</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>	24 ± 3.2	36 ± 2.5	9 ± 1.7	7 ± 1.2	9 ± 1.9
0.3	23 ± 1.2				
1.0	22 ± 1.2	31 ± 2.6			
3.3	22 ± 3.3	39 ± 2.3	12 ± 2.1		9 ± 1.7
5.0		36 ± 3.0			
8.0		33 ± 5.9			
10.0	15 ± 2.3	34 ± 2.4	10 ± 2.5		10 ± 0.9
22.0	Toxic				
33.0			10 ± 2.8	11 ± 2.3	10 ± 0.6
50.0				8 ± 0.9	
100.0			11 ± 1.9	10 ± 1.8	12 ± 0.9
200.0				13 ± 1.0 <sup>s</sup>	
333.0			13 ± 1.9	Toxic	17 ± 3.2 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>					124 ± 2.5
Positive Control <sup>3</sup>			87 ± 3.3	144 ± 4.4	
Positive Control <sup>4</sup>	1216 ± 77.0	1951 ± 34.4			

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Strain: TA1535

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Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 3.0
0.3	
1.0	
3.3	
5.0	
8.0	
10.0	
22.0	
33.0	10 ± 1.8
50.0	10 ± 1.7
100.0	18 ± 3.0
200.0	14 ± 3.5
333.0	19 ± 2.7 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	227 ± 15.2
Positive Control <sup>3</sup>	
Positive Control <sup>4</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>	6 ± 0.3	9 ± 1.9	11 ± 2.8	11 ± 2.9	8 ± 0.3
0.3	6 ± 0.6				
1.0	6 ± 1.7	5 ± 0.6			
3.3	6 ± 1.2	6 ± 1.2	7 ± 1.3		11 ± 0.0
5.0		13 ± 1.8			
8.0		10 ± 0.9			
10.0	4 ± 1.2 <sup>s</sup>	13 ± 2.1 <sup>s</sup>	6 ± 3.0		11 ± 0.9
22.0	8 ± 2.9 <sup>s</sup>				
33.0			8 ± 2.2	8 ± 1.8	8 ± 0.9
50.0				9 ± 0.3	
100.0			8 ± 1.2	10 ± 2.0	15 ± 2.1
200.0				12 ± 2.6 <sup>s</sup>	
333.0			9 ± 1.5	Toxic	7 ± 3.3 <sup>s</sup>
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control <sup>2</sup>					87 ± 1.8
Positive Control <sup>3</sup>			52 ± 5.2	163 ± 5.5	
Positive Control <sup>5</sup>	76 ± 8.3	3463 ± 120.8 <sup>s</sup>			

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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>	12 ± 1.2
0.3	
1.0	
3.3	
5.0	
8.0	
10.0	
22.0	
33.0	12 ± 1.5
50.0	13 ± 1.5
100.0	13 ± 1.2
200.0	16 ± 0.0
333.0	15 ± 2.5 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	311 ± 14.5
Positive Control <sup>3</sup>	
Positive Control <sup>5</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>	17 ± 0.6	20 ± 2.6	29 ± 4.2	28 ± 3.0	22 ± 2.1
0.3	16 ± 1.9				
1.0	20 ± 2.7	19 ± 2.9			
3.3	19 ± 3.0 <sup>s</sup>	25 ± 1.0	23 ± 2.6		27 ± 0.6
5.0		26 ± 2.0			
8.0		32 ± 3.5			
10.0	8 ± 1.2 <sup>s</sup>	36 ± 3.6 <sup>s</sup>	24 ± 1.8		25 ± 3.0
22.0	Toxic				
33.0			30 ± 4.6	47 ± 1.7	48 ± 5.0
50.0				52 ± 4.6	
100.0			48 ± 4.7	46 ± 8.4	98 ± 1.2
200.0				29 ± 3.1 <sup>s</sup>	
333.0			32 ± 5.0	Toxic	Toxic
Trial Summary	Negative	Equivocal	Equivocal	Equivocal	Positive
Positive Control <sup>2</sup>					961 ± 51.7
Positive Control <sup>3</sup>			457 ± 20.5	1050 ± 31.2	
Positive Control <sup>6</sup>	1554 ± 100.2	2783 ± 272.6			



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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 ± 4.5
0.3	
1.0	
3.3	
5.0	
8.0	
10.0	
22.0	
33.0	59 ± 6.2
50.0	94 ± 6.8
100.0	134 ± 13.2
200.0	38 ± 1.5 <sup>s</sup>
333.0	18 ± 0.6 <sup>s</sup>
Trial Summary	Positive
Positive Control <sup>2</sup>	2266 ± 44.0
Positive Control <sup>3</sup>	
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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

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