

Experiment Number: **600674**

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

**G06: Ames Summary Data**

Test Compound: **N,N'-bis(1,4-Dimethylpentyl)-p-phenylenediamine**

CAS Number: **3081-14-9**

Date Report Requested: **09/15/2018**

Time Report Requested: **00:18:57**

**NTP Study Number:**

600674

**Study Result:**

Negative

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MutagenicityTest Compound: N,N'-bis(1,4-Dimethylpentyl)-p-phenylenediamine  
CAS Number: 3081-14-9

Time Report Requested: 00:18:57

## 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>	120 ± 3.2	105 ± 4.7	111 ± 7.8	112 ± 2.0	106 ± 4.4
0.03		107 ± 5.3			
0.1		104 ± 12.8			
0.3	109 ± 4.5	109 ± 4.2			
1.0	105 ± 8.8	100 ± 0.6			
3.0	75 ± 4.9	92 ± 8.1	117 ± 5.2	122 ± 5.3	134 ± 4.6
10.0	0 ± 0.0 <sup>s</sup>		115 ± 0.3	117 ± 5.3	96 ± 4.6
33.0	0 ± 0.0 <sup>s</sup>		113 ± 6.8	139 ± 1.9	103 ± 3.5
100.0			131 ± 3.6	132 ± 1.9	127 ± 12.4
333.0			94 ± 12.2	130 ± 7.8	61 ± 9.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			534 ± 46.0	645 ± 9.0	1469 ± 61.2
Positive Control <sup>3</sup>	358 ± 7.0	372 ± 9.7			

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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>	104 ± 2.9
0.03	
0.1	
0.3	
1.0	
3.0	130 ± 2.8
10.0	105 ± 4.0
33.0	117 ± 5.2
100.0	105 ± 6.2
333.0	132 ± 9.0
Trial Summary	Negative
Positive Control <sup>2</sup>	1521 ± 82.5
Positive Control <sup>3</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 ± 2.6	27 ± 3.2	10 ± 2.2	10 ± 1.2	10 ± 2.4
0.3	30 ± 1.5	20 ± 3.2			
1.0	26 ± 2.6	23 ± 4.2			
3.0	16 ± 1.5	19 ± 5.3	12 ± 0.3	6 ± 0.7	7 ± 0.9
10.0	10 ± 2.8	20 ± 2.9	13 ± 3.5	7 ± 1.2	9 ± 0.0
33.0	12 ± 3.5 <sup>s</sup>	17 ± 3.0	8 ± 1.0	8 ± 0.9	6 ± 1.3
100.0			10 ± 1.0	6 ± 0.3	9 ± 1.8
333.0			7 ± 1.7	5 ± 1.0	10 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>	375 ± 15.5	274 ± 13.1			
Positive Control <sup>4</sup>			146 ± 2.8	159 ± 20.4	381 ± 7.9

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	10 ± 1.7
0.3	
1.0	
3.0	10 ± 1.0
10.0	7 ± 0.3
33.0	7 ± 0.9
100.0	7 ± 0.9
333.0	6 ± 1.5
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	344 ± 8.6

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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>	5 ± 0.6	4 ± 1.2	7 ± 0.7	6 ± 0.6	6 ± 1.0
0.03		4 ± 0.6			
0.1		5 ± 1.8			
0.3	9 ± 1.5	5 ± 1.8			
1.0	5 ± 1.2	3 ± 1.3			
3.0	3 ± 1.0	7 ± 0.6	7 ± 1.5	5 ± 0.7	7 ± 1.2
10.0	0 ± 0.3 <sup>s</sup>		7 ± 1.8	6 ± 0.7	3 ± 1.9
33.0	0 ± 0.0 <sup>s</sup>		8 ± 1.5	5 ± 1.5	5 ± 1.2
100.0			8 ± 1.2	8 ± 0.3	6 ± 0.9
333.0			8 ± 0.9	4 ± 1.0	8 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>			157 ± 8.7	108 ± 3.5	424 ± 75.9
Positive Control <sup>5</sup>	184 ± 4.7	192 ± 6.0			

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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>	5 ± 0.3
0.03	
0.1	
0.3	
1.0	
3.0	8 ± 0.3
10.0	6 ± 1.7
33.0	6 ± 1.2
100.0	5 ± 0.9
333.0	7 ± 1.5
Trial Summary	Negative
Positive Control <sup>4</sup>	342 ± 12.0
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>	15 ± 0.6	19 ± 1.0	17 ± 3.6	25 ± 2.3	25 ± 2.2
0.3	15 ± 2.1	20 ± 2.3			
1.0	15 ± 1.5	14 ± 1.2			
3.0	13 ± 6.1	15 ± 1.8	34 ± 3.9	30 ± 3.2	28 ± 7.0
10.0	16 ± 2.3	19 ± 3.7	32 ± 3.0	28 ± 5.2	34 ± 2.7
33.0	10 ± 2.3	16 ± 0.7	32 ± 2.0	30 ± 0.3	25 ± 0.6
100.0			35 ± 1.3	33 ± 3.2	25 ± 2.0
333.0			34 ± 1.2	27 ± 0.9	28 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>			473 ± 34.3	541 ± 10.7	1274 ± 85.7
Positive Control <sup>6</sup>	626 ± 20.6	844 ± 36.7			



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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>	17 ± 0.9
0.3	
1.0	
3.0	23 ± 4.4
10.0	25 ± 3.3
33.0	24 ± 0.3
100.0	23 ± 3.3
333.0	21 ± 3.2
Trial Summary	Negative
Positive Control <sup>2</sup>	1665 ± 37.1
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

s: Slight Toxicity

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