

Experiment Number: 716121

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

**G06: Ames Summary Data**

Test Compound: **4,4'-Methylenebis(N,N-dimethyl)benzenamine**

CAS Number: **101-61-1**

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

Time Report Requested: **00:06:09**

**NTP Study Number:**

716121

**Study Result:**

Positive

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## G06: Ames Summary Data

Test Compound: 4,4'-Methylenebis(N,N-dimethyl)benzenamine  
CAS Number: 101-61-1

Date Report Requested: 09/12/2018

Time Report Requested: 00:06:09

## Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	121 ± 6.2	160 ± 4.4	150 ± 10.9	172 ± 4.3	152 ± 11.8
1.0				168 ± 11.3	
3.0		153 ± 8.7	186 ± 17.8	169 ± 4.0	190 ± 5.3
10.0		205 ± 12.7	261 ± 17.6	303 ± 7.8	241 ± 35.3
33.0		222 ± 4.4	316 ± 23.5	368 ± 6.4	269 ± 21.7
100.0	137 ± 5.8	201 ± 4.1	353 ± 14.4	388 ± 11.8	395 ± 35.0
333.0	135 ± 2.1	239 ± 17.5	282 ± 5.3		446 ± 71.6
1000.0	118 ± 5.9				
3333.0	103 ± 5.0				
10000.0	115 ± 2.6 <sup>P</sup>				
Trial Summary	Negative	Weakly Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>					832 ± 34.1
Positive Control <sup>3</sup>		568 ± 22.5	620 ± 25.2	555 ± 18.3	
Positive Control <sup>4</sup>	1036 ± 10.2				

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	172 ± 5.1	163 ± 12.5
1.0		191 ± 3.2
3.0	222 ± 7.2	269 ± 13.0
10.0	328 ± 11.9	409 ± 18.1
33.0	413 ± 11.1	668 ± 21.0
100.0	490 ± 44.9	890 ± 59.7
333.0	784 ± 18.2	1473 ± 14.6
1000.0		
3333.0		
10000.0		
Trial Summary	Positive	Positive
Positive Control <sup>2</sup>	900 ± 12.7	894 ± 24.1
Positive Control <sup>3</sup>		
Positive Control <sup>4</sup>		

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## Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	31 ± 2.3	35 ± 2.9	28 ± 1.2	45 ± 2.1	32 ± 2.1
1.0			32 ± 0.9	33 ± 2.6	
3.0		30 ± 3.3	44 ± 5.0	42 ± 3.1	42 ± 1.2
6.0				55 ± 2.9	
10.0		46 ± 4.1	64 ± 6.4	72 ± 3.5	59 ± 10.0
33.0		44 ± 7.4	69 ± 3.2	76 ± 7.2	80 ± 4.4
66.0				62 ± 1.5	
100.0	25 ± 2.0	54 ± 1.2	66 ± 4.9		93 ± 2.9
333.0	28 ± 1.2	42 ± 4.3			118 ± 8.0
1000.0	31 ± 0.7				
3333.0	31 ± 2.6				
10000.0	20 ± 4.2 <sup>p</sup>				
Trial Summary	Negative	Equivocal	Positive	Equivocal	Positive
Positive Control <sup>2</sup>		102 ± 7.6	153 ± 6.9	246 ± 12.4	488 ± 24.9
Positive Control <sup>5</sup>	432 ± 19.0				

Experiment Number: 716121

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**G06: Ames Summary Data**

Test Compound: 4,4'-Methylenebis(N,N-dimethyl)benzenamine  
CAS Number: 101-61-1

Date Report Requested: 09/12/2018

Time Report Requested: 00:06:09

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	35 ± 1.5
1.0	
3.0	40 ± 5.6
6.0	
10.0	56 ± 6.9
33.0	126 ± 7.2
66.0	
100.0	139 ± 7.8
333.0	139 ± 5.9
1000.0	
3333.0	
10000.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	525 ± 45.2
Positive Control <sup>5</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: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

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