

Experiment Number: 607396

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 4-Dimethylaminoazobenzene

CAS Number: 60-11-7

Date Report Requested: 09/15/2018

Time Report Requested: 01:15:59

**NTP Study Number:**

607396

**Study Result:**

Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	135 ± 3.4	112 ± 1.7	138 ± 2.6	126 ± 10.5	122 ± 5.4
3.0		135 ± 16.6	149 ± 5.5		165 ± 7.6
10.0		139 ± 2.1	157 ± 5.2		149 ± 12.9
33.0		175 ± 1.3	149 ± 3.2		158 ± 1.8
100.0	132 ± 2.0	197 ± 7.7	146 ± 14.4	226 ± 12.9	204 ± 1.2
333.0	129 ± 3.2	213 ± 12.9	156 ± 4.5	220 ± 14.8	199 ± 6.1
1000.0	112 ± 5.7 <sup>p</sup>			219 ± 18.3 <sup>p</sup>	
3333.0	124 ± 2.4 <sup>p</sup>			187 ± 11.7 <sup>p</sup>	
10000.0	109 ± 8.8 <sup>p</sup>			192 ± 13.3 <sup>p</sup>	
Trial Summary	Negative	Positive	Negative	Equivocal	Equivocal
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>		2084 ± 73.0	1124 ± 55.6	817 ± 21.8	841 ± 14.4
Positive Control <sup>4</sup>	509 ± 9.0				

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## Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	101 ± 5.8	122 ± 3.7	110 ± 8.2	148 ± 8.7	128 ± 9.7
3.0	145 ± 5.2	118 ± 8.3	123 ± 6.9		135 ± 9.4
10.0	175 ± 11.3	121 ± 16.8	114 ± 17.5		151 ± 9.3
33.0	185 ± 15.9	129 ± 18.3	127 ± 18.0		197 ± 13.3
100.0	228 ± 10.1	143 ± 8.4	128 ± 17.1	177 ± 9.6	189 ± 12.3
333.0	214 ± 12.9	193 ± 2.9	142 ± 8.0	198 ± 6.4	191 ± 11.9
1000.0				189 ± 9.5 <sup>P</sup>	
3333.0				180 ± 4.7 <sup>P</sup>	
10000.0				192 ± 7.9 <sup>P</sup>	
Trial Summary	Positive	Equivocal	Negative	Equivocal	Weakly Positive
Positive Control <sup>2</sup>			2098 ± 96.7	1089 ± 78.1	1357 ± 34.3
Positive Control <sup>3</sup>	1343 ± 24.1	438 ± 4.7			
Positive Control <sup>4</sup>					

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	115 ± 11.1	114 ± 6.4	143 ± 15.1
3.0	125 ± 5.5	114 ± 21.1	152 ± 5.3
10.0	140 ± 7.2	125 ± 5.2	168 ± 3.4
33.0	158 ± 10.6	174 ± 6.9	213 ± 15.0
100.0	158 ± 10.7	232 ± 19.9	232 ± 8.2
333.0	164 ± 13.7	211 ± 19.8	244 ± 6.4
1000.0			
3333.0			
10000.0			
Trial Summary	Weakly Positive	Positive	Positive
Positive Control <sup>2</sup>	1235 ± 94.1		
Positive Control <sup>3</sup>		1191 ± 66.4	744 ± 34.5
Positive Control <sup>4</sup>			

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	23 ± 3.3	11 ± 1.7	11 ± 3.2
100.0	19 ± 2.6	14 ± 4.4	13 ± 0.9
333.0	16 ± 1.0	9 ± 2.0	6 ± 1.3
1000.0	13 ± 1.7 <sup>P</sup>	11 ± 2.1 <sup>P</sup>	9 ± 0.7 <sup>P</sup>
3333.0	14 ± 2.3 <sup>P</sup>	10 ± 2.6 <sup>P</sup>	8 ± 1.5 <sup>P</sup>
10000.0	6 ± 1.2 <sup>P</sup>	11 ± 2.0 <sup>P</sup>	7 ± 2.0 <sup>P</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>			380 ± 9.5
Positive Control <sup>4</sup>	393 ± 28.8		
Positive Control <sup>5</sup>		267 ± 7.4	

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## Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	156 ± 4.0	148 ± 16.4	195 ± 6.0	120 ± 60.2	140 ± 14.3
3.0			201 ± 13.0	125 ± 63.7	
10.0			202 ± 5.2	205 ± 10.0	
33.0			237 ± 12.6	190 ± 13.5	
100.0	150 ± 8.7	249 ± 9.4	268 ± 12.0	192 ± 8.7	155 ± 20.1
166.0			242 ± 11.2	175 ± 17.5	
333.0	123 ± 5.5	87 ± 6.8			155 ± 8.7
1000.0	110 ± 5.2 <sup>P</sup>	72 ± 10.8 <sup>P</sup>			136 ± 9.9 <sup>P</sup>
3333.0	85 ± 5.5 <sup>P</sup>	54 ± 18.2 <sup>P</sup>			142 ± 16.7 <sup>P</sup>
10000.0	86 ± 30.9 <sup>P</sup>	33 ± 13.3 <sup>P</sup>			125 ± 17.4 <sup>P</sup>
Trial Summary	Negative	Equivocal	Equivocal	Negative	Negative
Positive Control <sup>2</sup>					442 ± 24.0
Positive Control <sup>3</sup>		326 ± 12.9	600 ± 23.8	601 ± 57.1	
Positive Control <sup>6</sup>	539 ± 25.0				

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## Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	20 ± 3.4	38 ± 2.6	40 ± 5.5	38 ± 1.5	45 ± 1.7
3.0			29 ± 0.9	37 ± 0.3	
10.0			34 ± 3.8	27 ± 2.4	
33.0			52 ± 5.0	63 ± 4.9	
100.0	19 ± 2.0	79 ± 6.7	67 ± 3.7	69 ± 2.1	70 ± 2.0
333.0	20 ± 2.0	73 ± 2.9	55 ± 1.2	68 ± 4.5	66 ± 4.4
1000.0	20 ± 1.3 <sup>p</sup>	70 ± 1.5 <sup>p</sup>			55 ± 3.8 <sup>p</sup>
3333.0	17 ± 0.3 <sup>p</sup>	72 ± 5.2 <sup>p</sup>			68 ± 4.2 <sup>p</sup>
10000.0	16 ± 4.5 <sup>p</sup>	80 ± 6.2 <sup>p</sup>			76 ± 3.7 <sup>p</sup>
Trial Summary	Negative	Equivocal	Equivocal	Weakly Positive	Equivocal
Positive Control <sup>2</sup>					391 ± 17.5
Positive Control <sup>3</sup>		293 ± 20.7	499 ± 20.2	661 ± 37.9	
Positive Control <sup>7</sup>	834 ± 52.3				

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	30 ± 1.2	26 ± 3.2
3.0	33 ± 3.8	33 ± 2.0
10.0	55 ± 5.8	44 ± 2.9
33.0	71 ± 1.2	70 ± 10.5
100.0	67 ± 5.6	65 ± 2.4
333.0	60 ± 4.0	80 ± 8.9
1000.0		
3333.0		
10000.0		
Trial Summary	Positive	Positive
Positive Control <sup>2</sup>	829 ± 28.5	1033 ± 40.1
Positive Control <sup>3</sup>		
Positive Control <sup>7</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: 0.5 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

p: Precipitate

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