

Experiment Number: 710935

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 4,4'-Methylenebis(2-chloroaniline)

CAS Number: 101-14-4

Date Report Requested: 09/12/2018

Time Report Requested: 13:38:04

**NTP Study Number:**

710935

**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>	91 ± 1.2	98 ± 1.9	94 ± 4.9	105 ± 0.9	82 ± 3.8
1.0	95 ± 10.6	92 ± 9.2			
3.3	97 ± 4.0	103 ± 8.2	119 ± 9.5	112 ± 5.3	93 ± 9.2
10.0	100 ± 4.7	110 ± 5.2	205 ± 20.5	201 ± 10.0	145 ± 13.3
33.0	96 ± 6.1	130 ± 7.4	383 ± 7.2	352 ± 16.2	413 ± 18.8
67.0	89 ± 2.8 <sup>s</sup>	124 ± 5.1 <sup>s</sup>			
100.0			546 ± 14.4	475 ± 10.3	847 ± 11.3
200.0			674 ± 27.9 <sup>s</sup>	516 ± 37.0 <sup>s</sup>	515 ± 31.0 <sup>s</sup>
Trial Summary	Negative	Equivocal	Positive	Positive	Positive
Positive Control <sup>2</sup>					842 ± 38.9
Positive Control <sup>3</sup>			1374 ± 14.7	2318 ± 4.1	
Positive Control <sup>4</sup>	1095 ± 60.7	1873 ± 16.2			

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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>	83 ± 6.4
1.0	
3.3	97 ± 4.1
10.0	177 ± 17.0
33.0	409 ± 9.3
67.0	
100.0	851 ± 8.7
200.0	Toxic
Trial Summary	Positive
Positive Control <sup>2</sup>	1877 ± 85.3
Positive Control <sup>3</sup>	
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>	14 ± 2.1	11 ± 2.4	12 ± 1.8
1.0	21 ± 2.0		
3.3	20 ± 1.5	12 ± 1.3	8 ± 2.3
10.0	19 ± 2.4	16 ± 2.1	8 ± 0.3
33.0	17 ± 2.5 <sup>s</sup>	10 ± 1.7	10 ± 0.7
67.0	14 ± 3.3 <sup>s</sup>		
100.0		14 ± 1.0	11 ± 0.7
200.0		7 ± 2.3 <sup>s</sup>	12 ± 1.0 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			77 ± 5.1
Positive Control <sup>3</sup>		104 ± 2.6	
Positive Control <sup>4</sup>	819 ± 48.8		

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## Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	114 ± 20.2	102 ± 3.3	134 ± 14.0	168 ± 4.2	102 ± 8.2
1.0	94 ± 7.7	96 ± 2.3			
3.3	80 ± 2.6	108 ± 4.9	133 ± 1.8	166 ± 9.3	123 ± 2.9
10.0	90 ± 5.5	99 ± 9.4	135 ± 7.2	185 ± 10.8	120 ± 0.3
33.0	98 ± 5.2 <sup>s</sup>	97 ± 7.6 <sup>s</sup>	172 ± 6.9	183 ± 8.3	168 ± 6.9
67.0	76 ± 2.9 <sup>s</sup>	93 ± 1.5 <sup>s</sup>			
100.0			185 ± 5.6	221 ± 1.0	220 ± 12.8
200.0			162 ± 5.0 <sup>s</sup>	203 ± 8.0 <sup>s</sup>	172 ± 7.8 <sup>s</sup>
Trial Summary	Negative	Negative	Equivocal	Equivocal	Weakly Positive
Positive Control <sup>2</sup>					817 ± 24.3
Positive Control <sup>3</sup>			1130 ± 10.5	1537 ± 28.5	
Positive Control <sup>5</sup>	2329 ± 23.1	859 ± 10.0			

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

**G06: Ames Summary Data**

Test Compound: **4,4'-Methylenebis(2-chloroaniline)**

CAS Number: **101-14-4**

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

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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	162 ± 7.7
1.0	
3.3	141 ± 8.6
10.0	180 ± 10.1
33.0	198 ± 0.6
67.0	
100.0	267 ± 5.5
200.0	Toxic
Trial Summary	Equivocal
Positive Control <sup>2</sup>	1071 ± 23.4
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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Test Compound: 4,4'-Methylenebis(2-chloroaniline)  
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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 ± 1.0	16 ± 0.9	25 ± 2.5	37 ± 1.3	34 ± 6.2
1.0	18 ± 4.3	17 ± 3.3			
3.3	14 ± 1.5	16 ± 2.4	28 ± 2.0	47 ± 6.1	38 ± 2.9
10.0	19 ± 1.2	17 ± 4.3	41 ± 5.3	50 ± 3.5	41 ± 1.8
33.0	17 ± 1.8	14 ± 2.7	52 ± 1.5	56 ± 2.0	53 ± 1.3
67.0	16 ± 1.5	20 ± 2.9 <sup>s</sup>			
100.0			65 ± 3.3	69 ± 4.6	80 ± 5.7
200.0			57 ± 5.8 <sup>s</sup>	69 ± 2.6 <sup>s</sup>	83 ± 5.3 <sup>s</sup>
Trial Summary	Negative	Negative	Positive	Weakly Positive	Positive
Positive Control <sup>2</sup>					997 ± 17.3
Positive Control <sup>3</sup>			1353 ± 65.2	2175 ± 42.0	
Positive Control <sup>6</sup>	1776 ± 54.8	1841 ± 87.5			

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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>	37 ± 2.2
1.0	
3.3	38 ± 3.8
10.0	51 ± 3.7
33.0	71 ± 6.0
67.0	
100.0	90 ± 4.1
200.0	83 ± 14.9 <sup>s</sup>
Trial Summary	Positive
Positive Control <sup>2</sup>	1565 ± 17.4
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: 4.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

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