

Experiment Number: 023975

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: 09/14/2018

Time Report Requested: 13:08:38

**NTP Study Number:**

023975

**Study Result:**

Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	107 ± 8.2	138 ± 7.9	142 ± 6.2	115 ± 4.4	132 ± 10.2
3.0	104 ± 7.2	158 ± 8.6	170 ± 14.1	135 ± 8.5	153 ± 3.4
10.0	105 ± 3.9	190 ± 3.5	178 ± 14.9	149 ± 13.1	185 ± 2.8
33.0	110 ± 11.3	292 ± 6.0	303 ± 51.0	283 ± 27.2	347 ± 8.1
100.0	90 ± 9.6	532 ± 50.7	560 ± 53.8	517 ± 26.3	587 ± 18.6
333.0	0 ± 0.0 <sup>s</sup>	562 ± 49.1 <sup>s</sup>	517 ± 119.9	589 ± 57.0	266 ± 142.7 <sup>s</sup>
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>		864 ± 9.3	432 ± 7.5	2419 ± 26.3	2589 ± 194.0
Positive Control <sup>3</sup>	757 ± 53.9				

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	17 ± 2.2	9 ± 1.8	7 ± 1.2
3.0	18 ± 1.7		7 ± 1.0
10.0	16 ± 3.7	10 ± 1.2	3 ± 0.6
33.0	20 ± 2.7	6 ± 2.0	7 ± 1.5
100.0	15 ± 1.3	7 ± 0.6	12 ± 2.8
333.0	0 ± 0.0 <sup>s</sup>	7 ± 2.2	6 ± 2.7 <sup>s</sup>
666.0		1 ± 0.9 <sup>s</sup>	
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>	596 ± 19.1		
Positive Control <sup>4</sup>		310 ± 9.3	539 ± 31.1

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	5 ± 0.9	7 ± 1.2
3.0	10 ± 1.9	10 ± 2.7
10.0	8 ± 2.3	6 ± 1.2
33.0	11 ± 2.7	6 ± 1.3
100.0	9 ± 0.0	12 ± 2.9
333.0	8 ± 2.9 <sup>s</sup>	3 ± 1.3 <sup>s</sup>
Trial Summary	Negative	Negative
Positive Control <sup>4</sup>	215 ± 5.0	168 ± 5.8

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## Strain: TA97

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	162 ± 3.9	165 ± 5.9	189 ± 6.1	157 ± 10.7	157 ± 11.0
3.0	168 ± 7.6		169 ± 9.2	178 ± 6.4	174 ± 1.2
10.0	165 ± 4.6	171 ± 8.3	174 ± 3.6	185 ± 3.5	204 ± 36.3
33.0	164 ± 9.3	187 ± 18.1	196 ± 24.4	206 ± 12.0	232 ± 12.8
100.0	82 ± 10.6	243 ± 20.7	216 ± 53.6	276 ± 12.8	294 ± 11.5
333.0	7 ± 5.1 <sup>s</sup>	250 ± 9.9	237 ± 1.2 <sup>s</sup>	270 ± 24.8	226 ± 14.1 <sup>s</sup>
666.0		73 ± 12.8 <sup>s</sup>			
Trial Summary	Negative	Weakly Positive	Equivocal	Positive	Positive
Positive Control <sup>4</sup>		1479 ± 49.5	1315 ± 10.7	2255 ± 36.6	1338 ± 10.8
Positive Control <sup>5</sup>	1844 ± 77.2				

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## Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	19 ± 3.3	24 ± 2.1	29 ± 0.9	25 ± 2.9	30 ± 1.5
3.0	20 ± 4.7		38 ± 4.5	19 ± 8.0	35 ± 8.4
10.0	16 ± 1.2	28 ± 4.6	32 ± 3.2	25 ± 2.2	46 ± 6.4
33.0	21 ± 1.7	36 ± 3.8	42 ± 3.5	46 ± 2.7	48 ± 9.6
100.0	16 ± 2.6	60 ± 4.4	74 ± 4.4	71 ± 7.0	73 ± 11.9
333.0	3 ± 2.7 <sup>s</sup>	73 ± 2.0	82 ± 12.7 <sup>s</sup>	84 ± 17.9	66 ± 12.2 <sup>s</sup>
666.0		4 ± 2.3 <sup>s</sup>			
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>		513 ± 25.8	461 ± 32.8	1444 ± 57.2	1693 ± 39.7
Positive Control <sup>6</sup>	1489 ± 52.9				

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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 \*\***