

Experiment Number: 735526

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

G06: Ames Summary Data

Test Compound: **4,4'-Methylenedianiline dihydrochloride**

CAS Number: **13552-44-8**

Date Report Requested: **09/17/2018**

Time Report Requested: **05:13:34**

NTP Study Number:

735526

Study Result:

Positive

Experiment Number: 735526

G06: Ames Summary Data

Date Report Requested: 09/17/2018

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

Test Compound: 4,4'-Methylenedianiline dihydrochloride

Time Report Requested: 05:13:34

CAS Number: 13552-44-8

Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	142 ± 9.6	154 ± 7.3	176 ± 6.5	145 ± 3.0	175 ± 6.2
0.3					181 ± 6.8
1.0				197 ± 3.9	253 ± 11.9
3.0				255 ± 13.8	361 ± 11.6
6.0				392 ± 13.6	598 ± 10.0
10.0		165 ± 3.8	193 ± 13.7	502 ± 10.9	922 ± 33.8
16.0			214 ± 4.0		
33.0		437 ± 25.5	263 ± 33.0	1061 ± 46.3	
66.0		500 ± 44.6	485 ± 9.8		
100.0	149 ± 9.7	628 ± 20.2	656 ± 65.0		
333.0	148 ± 10.1	985 ± 39.7			
1000.0	152 ± 18.2				
3333.0	161 ± 6.1				
10000.0	44 ± 3.8 ^s				
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²				852 ± 14.4	948 ± 88.1
Positive Control ³		489 ± 10.5	867 ± 22.0		
Positive Control ⁴	960 ± 11.1				

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Date Report Requested: 09/17/2018

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	28 ± 3.1	42 ± 3.1	49 ± 0.7	39 ± 0.7	42 ± 3.2
0.03					
0.1					
0.3					
1.0				37 ± 2.3	149 ± 12.1
3.0			44 ± 3.5	43 ± 4.9	193 ± 8.5
6.0				64 ± 3.5	
10.0		42 ± 4.0	63 ± 7.0	85 ± 2.9	363 ± 14.0
16.0					394 ± 26.9
33.0		81 ± 5.5	130 ± 7.5	217 ± 9.1	771 ± 32.3
66.0		128 ± 9.0			
100.0	27 ± 4.9	128 ± 3.5	149 ± 10.4		
333.0	25 ± 1.9	218 ± 17.3	264 ± 13.7		
1000.0	31 ± 3.3				
3333.0	29 ± 2.1				
10000.0	0 ± 0.0 ^s				
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²		134 ± 1.3	156 ± 10.8	520 ± 39.5	631 ± 33.3
Positive Control ⁵	625 ± 11.9				

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Test Compound: **4,4'-Methylenedianiline dihydrochloride**

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Date Report Requested: 09/17/2018

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	44 ± 4.4
0.03	51 ± 2.1
0.1	37 ± 7.8
0.3	39 ± 0.9
1.0	47 ± 1.9
3.0	58 ± 9.1
6.0	
10.0	95 ± 5.7
16.0	140 ± 5.4
33.0	250 ± 1.7
66.0	
100.0	
333.0	
1000.0	
3333.0	
10000.0	
Trial Summary	Positive
Positive Control ²	675 ± 19.6
Positive Control ⁵	

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LEGEND

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: Water

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

s: Slight Toxicity

**** END OF REPORT ****