

Experiment Number: A35880

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

G06: Ames Summary Data

Test Compound: **Methylene blue trihydrate**

CAS Number: **7220-79-3**

Date Report Requested: **09/16/2018**

Time Report Requested: **18:15:56**

NTP Study Number:

A35880

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	52 ± 3.3	55 ± 1.9	66 ± 8.2	67 ± 5.0
0.25		107 ± 5.5		
0.5		133 ± 1.5		
1.0	105 ± 9.8	193 ± 4.9		
2.5		271 ± 19.6		
5.0	124 ± 8.2	115 ± 9.1	87 ± 4.4	95 ± 2.1
10.0	42 ± 5.0		111 ± 15.5	194 ± 2.3
15.0	Toxic			
25.0	Toxic		187 ± 8.6	238 ± 10.9
50.0			253 ± 5.8	265 ± 6.9
100.0			313 ± 1.5	342 ± 4.6
150.0			Toxic	
Trial Summary	Positive	Positive	Positive	Positive
Positive Control ²	365 ± 12.5	396 ± 9.6		
Positive Control ³			798 ± 13.9	649 ± 21.7

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	22 ± 1.8	29 ± 5.5	34 ± 2.1	46 ± 0.9
0.25		33 ± 1.8		
0.5		64 ± 4.8		
1.0	151 ± 27.0	155 ± 3.3		
2.5		124 ± 6.4		
5.0	44 ± 2.3	73 ± 1.5	59 ± 2.6	73 ± 8.7
10.0	Toxic		122 ± 1.9	109 ± 9.7
15.0	Toxic			
25.0	Toxic		201 ± 7.9	146 ± 6.1
50.0			203 ± 13.6	234 ± 4.4
100.0			87 ± 6.3	110 ± 2.3
150.0			40 ± 1.8	
Trial Summary	Positive	Positive	Positive	Positive
Positive Control ³			1314 ± 22.7	1078 ± 19.9
Positive Control ⁴	615 ± 33.9	476 ± 31.8		

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	105 ± 1.5	141 ± 18.4	178 ± 12.1	220 ± 7.5
0.25		158 ± 9.2		
0.5		255 ± 10.7		
1.0	570 ± 13.6	376 ± 2.3		
2.5		426 ± 6.2		
5.0	491 ± 39.5			
10.0	166 ± 21.3		198 ± 31.0	243 ± 16.4
15.0	124 ± 5.8			
25.0	Toxic		338 ± 37.8	275 ± 5.4
100.0			437 ± 31.2	310 ± 17.9
500.0			368 ± 34.4	462 ± 15.3
1500.0			186 ± 7.9	193 ± 17.4
Trial Summary	Positive	Positive	Positive	Positive
Positive Control ⁵			1069 ± 7.1	1162 ± 19.4
Positive Control ⁶	2035 ± 15.0	2149 ± 58.6		

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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: Dimethyl Sulfoxide
- 2: 1.0 ug/Plate Sodium Azide
- 3: 2.5 ug/Plate 2-Aminoanthracene
- 4: 5.0 ug/Plate 2-Nitrofluorene
- 5: 20.0 ug/Plate 2-Aminoanthracene
- 6: 4000.0 ug/Plate Methyl Methane Sulfonate

**** END OF REPORT ****