

Experiment Number: 811345

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

G06: Ames Summary Data

Test Compound: **Methylene blue trihydrate**

CAS Number: 7220-79-3

Date Report Requested: 09/15/2018

Time Report Requested: 13:29:49

NTP Study Number:

811345

Study Result:

Positive

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G06: Ames Summary Data

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Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**Test Compound: **Methylene blue trihydrate**

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CAS Number: 7220-79-3

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	119 ± 6.8	147 ± 3.1	156 ± 3.2	136 ± 15.2	137 ± 2.0
1.0	97 ± 5.9				
3.3	132 ± 6.3		155 ± 2.0		157 ± 2.4
10.0	143 ± 2.2	179 ± 1.5	176 ± 1.5	130 ± 11.5	213 ± 12.6
33.0	159 ± 5.6	339 ± 9.7	603 ± 41.0	246 ± 25.7	792 ± 31.6
67.0		478 ± 26.0	703 ± 41.4	407 ± 14.5	351 ± 35.7
100.0	45 ± 5.8 ^s	509 ± 29.2	192 ± 41.6 ^s	475 ± 16.5	146 ± 29.1 ^s
200.0		146 ± 21.8 ^s	153 ± 31.5 ^s	180 ± 30.8 ^s	341 ± 78.2 ^s
Trial Summary	Equivocal	Positive	Positive	Positive	Positive
Positive Control ²	543 ± 11.6				
Positive Control ³				623 ± 23.7	881 ± 16.5
Positive Control ⁴		1412 ± 33.5	506 ± 45.3		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	16 ± 1.5	18 ± 4.2	26 ± 4.9	33 ± 2.6	22 ± 0.3
1.0	22 ± 2.0	20 ± 0.7			
3.3	19 ± 4.3	27 ± 3.9		78 ± 3.8	
10.0	25 ± 3.8	33 ± 1.2	77 ± 4.2	107 ± 11.9	54 ± 8.1
33.0	37 ± 1.5	50 ± 5.0	119 ± 9.0	175 ± 17.4	287 ± 26.0
50.0		21 ± 1.5			
67.0			176 ± 13.0	149 ± 6.4	191 ± 6.1
100.0	6 ± 1.8 ^s	9 ± 4.7 ^s	214 ± 17.4	31 ± 7.5 ^s	161 ± 11.7
200.0			43 ± 10.7 ^s	23 ± 6.1 ^s	61 ± 9.6 ^s
Trial Summary	Weakly Positive	Positive	Positive	Positive	Positive
Positive Control ⁵	342 ± 7.1	298 ± 48.8			
Positive Control ³			356 ± 8.1	137 ± 4.4	560 ± 12.2

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	28 ± 3.4
1.0	
3.3	79 ± 6.0
10.0	85 ± 3.2
33.0	155 ± 6.2
50.0	
67.0	58 ± 10.3
100.0	40 ± 8.9 ^s
200.0	47 ± 1.2 ^s
Trial Summary	Positive
Positive Control ⁵	
Positive Control ³	806 ± 64.7

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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: 100% Ethanol

2: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****