

Experiment Number: 118086
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Ponceau MX
CAS Number: 3761-53-3

Date Report Requested: 09/12/2018
Time Report Requested: 01:23:38

NTP Study Number: 118086
Study Result: Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	116 ± 1.5	110 ± 6.7	138 ± 17.0	143 ± 11.6	128 ± 5.4
100.0	107 ± 4.6	119 ± 9.3			115 ± 2.3
333.0	102 ± 8.2	147 ± 7.4	159 ± 6.6	198 ± 4.7	159 ± 2.8
1000.0	116 ± 3.3	177 ± 6.9	175 ± 3.5	193 ± 10.1	207 ± 4.4
3333.0	106 ± 1.8	185 ± 9.2	167 ± 0.7 ^P	198 ± 6.2 ^P	199 ± 37.7
6667.0			171 ± 17.5 ^P	201 ± 9.3 ^P	
10000.0	109 ± 10.1	204 ± 10.7	171 ± 5.3 ^P	189 ± 10.1 ^P	280 ± 15.4
Trial Summary	Negative	Weakly Positive	Negative	Equivocal	Weakly Positive
Positive Control ²	365 ± 4.9				
Positive Control ³		930 ± 50.2			
Positive Control ⁴			1011 ± 22.7	1246 ± 35.2	654 ± 46.0

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	130 ± 8.4	154 ± 4.5
100.0		
333.0	169 ± 3.3	185 ± 10.6
1000.0	177 ± 4.6	200 ± 8.3
3333.0	199 ± 2.0 ^P	229 ± 13.4 ^P
6667.0	181 ± 19.1 ^P	244 ± 4.4 ^P
10000.0	191 ± 11.1 ^P	228 ± 12.4 ^P
Trial Summary	Equivocal	Equivocal
Positive Control ²		
Positive Control ³	509 ± 55.8	908 ± 29.3
Positive Control ⁴		

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Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	16 ± 0.9	15 ± 3.6
100.0	29 ± 1.7	25 ± 2.3
333.0	15 ± 1.3	16 ± 3.8
1000.0	19 ± 3.2	19 ± 1.9
3333.0	14 ± 2.9 ^p	16 ± 2.7 ^p
6667.0	18 ± 2.9 ^p	12 ± 1.9 ^p
10000.0	15 ± 1.8 ^p	22 ± 2.7 ^p
Trial Summary	Negative	Negative
Positive Control ³		223 ± 16.5
Positive Control ⁴	82 ± 1.8	

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Strain: TA1538

Dose (ug/Plate)	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 4.2	16 ± 2.5	22 ± 2.2	19 ± 0.7	23 ± 2.4
33.0	16 ± 1.5			20 ± 1.0	24 ± 4.0
100.0	19 ± 3.6			24 ± 2.5	25 ± 2.4
333.0	19 ± 0.9	24 ± 3.2	29 ± 2.3	25 ± 3.7	26 ± 2.3
1000.0	23 ± 3.5	26 ± 1.0	41 ± 0.9	31 ± 0.7	29 ± 1.2
3333.0	21 ± 2.0	41 ± 3.0 ^p	42 ± 2.3 ^p	33 ± 2.1	25 ± 2.6
6667.0		37 ± 2.0 ^p	38 ± 2.6 ^p		
10000.0		34 ± 2.3 ^p	29 ± 2.7 ^p		
Trial Summary	Negative	Positive	Equivocal	Negative	Negative
Positive Control ⁵	300 ± 2.7				800 ± 136.1
Positive Control ³		203 ± 16.8	509 ± 23.1	370 ± 17.9	

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Strain: TA1538

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	29 ± 1.2	30 ± 5.0	20 ± 3.8
33.0			20 ± 2.6
100.0			22 ± 3.3
333.0	33 ± 3.1	33 ± 2.6	31 ± 3.5
1000.0	26 ± 5.5	45 ± 3.7	41 ± 3.5
3333.0	46 ± 8.1 ^p	70 ± 5.2 ^p	53 ± 4.8
6667.0	50 ± 2.2 ^p	69 ± 3.8 ^p	
10000.0	41 ± 1.5 ^p	41 ± 3.9 ^p	
Trial Summary	Negative	Positive	Weakly Positive
Positive Control ⁵			
Positive Control ³	476 ± 90.3	889 ± 33.6	940 ± 22.2

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	20 ± 0.9	31 ± 3.4	21 ± 2.5	31 ± 3.8	31 ± 4.9
33.0		32 ± 3.9			
100.0	17 ± 4.4	27 ± 1.5	32 ± 2.3		
333.0	15 ± 4.8	30 ± 2.6	41 ± 3.2	33 ± 1.3	46 ± 0.9
1000.0	19 ± 1.9	30 ± 3.5	35 ± 1.0 ^p	36 ± 4.7	52 ± 3.2
3333.0	11 ± 1.3	31 ± 1.2	34 ± 6.7 ^p	43 ± 5.2 ^p	47 ± 4.0 ^p
6667.0				51 ± 4.5 ^p	47 ± 5.0 ^p
10000.0	13 ± 1.2 ^p		23 ± 8.1 ^p	48 ± 2.0 ^p	45 ± 1.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁵		360 ± 7.9			
Positive Control ³			403 ± 40.0	228 ± 0.9	437 ± 23.1
Positive Control ⁶	335 ± 20.7				

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	36 ± 4.1	28 ± 2.7	23 ± 0.0	26 ± 1.2	38 ± 2.2
33.0	27 ± 4.0	29 ± 1.5			
100.0	35 ± 4.4	31 ± 4.8	34 ± 1.5		
333.0	40 ± 1.5	35 ± 0.9	43 ± 1.0	42 ± 1.9	49 ± 1.7
1000.0	39 ± 3.3	37 ± 4.9	47 ± 2.2 ^p	47 ± 6.5	60 ± 3.2
3333.0	43 ± 4.0	30 ± 3.2	36 ± 4.4 ^p	56 ± 1.2 ^p	87 ± 7.1 ^p
6667.0				59 ± 4.7 ^p	71 ± 4.4 ^p
10000.0			39 ± 5.2 ^p	54 ± 6.7 ^p	59 ± 4.7 ^p
Trial Summary	Negative	Negative	Equivocal	Positive	Weakly Positive
Positive Control ⁵		1138 ± 17.6			
Positive Control ³	437 ± 21.9		299 ± 20.7	225 ± 16.6	812 ± 30.7
Positive Control ⁶					

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	29 ± 6.6
33.0	32 ± 2.3
100.0	29 ± 2.1
333.0	38 ± 2.5
1000.0	41 ± 4.7
3333.0	54 ± 6.4
6667.0	
10000.0	
Trial Summary	Negative
Positive Control ⁵	
Positive Control ³	949 ± 36.3
Positive Control 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: Water

2: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 0.4 ug/Plate 2-Aminoanthracene

6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

** END OF REPORT **