

Experiment Number: 041772

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Phenolphthalein

CAS Number: 77-09-8

Date Report Requested: 09/14/2018

Time Report Requested: 20:15:59

NTP Study Number:

041772

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	153 ± 7.9	176 ± 6.2	125 ± 5.6	169 ± 6.8	144 ± 5.7
3.3	141 ± 7.2	170 ± 4.5	124 ± 3.0	173 ± 11.8	140 ± 6.6
10.0	131 ± 2.1	180 ± 4.7	150 ± 7.6	166 ± 14.7	145 ± 8.3
33.0	127 ± 3.0	163 ± 3.4	140 ± 9.9	177 ± 1.5	140 ± 10.4
100.0	157 ± 7.4	184 ± 9.0	148 ± 6.6	191 ± 7.2	162 ± 1.5
220.0		132 ± 2.7 ^s		168 ± 6.9 ^s	
333.0	Toxic		92 ± 5.9 ^s		94 ± 6.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1109 ± 32.7
Positive Control ³			908 ± 46.0	617 ± 8.8	
Positive Control ⁴	984 ± 41.6	1072 ± 48.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	197 ± 6.9
3.3	196 ± 7.5
10.0	211 ± 8.5
33.0	198 ± 7.2
100.0	204 ± 8.8
220.0	226 ± 3.5 ^s
333.0	
Trial Summary	Negative
Positive Control ²	691 ± 21.4
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	31 ± 3.8	28 ± 7.0	15 ± 1.9	14 ± 0.6	13 ± 1.2
3.3	29 ± 3.5	26 ± 1.9	10 ± 1.8	12 ± 2.3	11 ± 0.0
10.0	21 ± 4.7	19 ± 3.3	11 ± 3.3	11 ± 0.7	9 ± 2.0
33.0	31 ± 5.2	21 ± 3.7	9 ± 3.8	17 ± 1.8	9 ± 1.0
100.0	28 ± 4.0	25 ± 2.6	12 ± 2.3	13 ± 1.2	11 ± 0.9
220.0		Toxic		15 ± 4.7 ^s	
333.0	Toxic		6 ± 1.0 ^s		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					148 ± 15.2
Positive Control ³			117 ± 6.6	59 ± 0.9	
Positive Control ⁴	972 ± 21.3	840 ± 53.4			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.2
3.3	12 ± 0.0
10.0	12 ± 1.9
33.0	13 ± 4.2
100.0	14 ± 0.6
220.0	14 ± 0.6 ^s
333.0	
Trial Summary	Negative
Positive Control ²	68 ± 1.5
Positive Control ³	
Positive Control ⁴	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 2.3	7 ± 1.2	7 ± 1.5	9 ± 2.1	12 ± 1.8
3.3	7 ± 0.6	6 ± 2.3	7 ± 1.0	8 ± 0.3	12 ± 0.3
10.0	7 ± 2.3	7 ± 0.7	9 ± 0.3	10 ± 1.0	8 ± 1.2
33.0	6 ± 0.6	5 ± 2.0	8 ± 1.2	7 ± 0.6	8 ± 1.8
100.0	6 ± 1.2	11 ± 1.5	8 ± 0.9	11 ± 1.8	9 ± 1.5
220.0		4 ± 1.0 ^s		5 ± 0.3 ^s	
333.0	Toxic		Toxic		5 ± 1.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					102 ± 2.3
Positive Control ³			73 ± 1.5	42 ± 2.5	
Positive Control ⁵	393 ± 85.6	188 ± 17.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.0
3.3	9 ± 2.2
10.0	7 ± 1.2
33.0	11 ± 1.2
100.0	9 ± 0.3
220.0	10 ± 1.8 ^s
333.0	
Trial Summary	Negative
Positive Control ²	54 ± 2.5
Positive Control ³	
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 1.8	19 ± 2.7	19 ± 1.3	22 ± 2.3	23 ± 2.7
3.3	21 ± 2.1	18 ± 2.3	26 ± 0.9	28 ± 3.1	29 ± 3.2
10.0	20 ± 2.1	12 ± 2.0	23 ± 2.6	25 ± 2.6	26 ± 1.5
33.0	21 ± 2.7	14 ± 3.8	25 ± 4.5	25 ± 0.6	27 ± 2.0
100.0	16 ± 1.5	11 ± 0.9	25 ± 4.4	20 ± 0.3	29 ± 2.4
220.0		10 ± 2.9 ^s		25 ± 2.6 ^s	
333.0	Toxic		29 ± 2.6 ^s		30 ± 2.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1231 ± 9.5
Positive Control ³			1001 ± 10.1	402 ± 49.7	
Positive Control ⁶	1335 ± 20.7	1335 ± 27.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	23 ± 4.0
3.3	23 ± 1.0
10.0	32 ± 2.1
33.0	25 ± 2.0
100.0	25 ± 1.2
220.0	33 ± 5.0 ^s
333.0	
Trial Summary	Negative
Positive Control ²	467 ± 30.1
Positive Control 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: Dimethyl Sulfoxide

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **