

Experiment Number: 158764

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: p-Nitrophenol

CAS Number: 100-02-7

Date Report Requested: 09/12/2018

Time Report Requested: 21:04:45

NTP Study Number:

158764

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	149 ± 8.1	195 ± 5.9	182 ± 7.8	202 ± 7.8	192 ± 3.9
10.0	149 ± 16.3		192 ± 6.1		184 ± 4.6
33.0	140 ± 4.6		184 ± 1.9		181 ± 11.3
100.0	116 ± 7.1	172 ± 11.5	182 ± 17.6	221 ± 11.7	185 ± 3.4
166.0		165 ± 10.1		224 ± 18.5	
333.0	103 ± 4.5	156 ± 7.5	205 ± 0.7	249 ± 7.8	198 ± 6.8
666.0		152 ± 4.0		194 ± 11.4	
1000.0	104 ± 7.8	144 ± 9.1	182 ± 14.3	157 ± 22.1	179 ± 3.2
3333.0					
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²			424 ± 20.8	510 ± 25.8	847 ± 55.0
Positive Control ³	464 ± 3.2	408 ± 1.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	202 ± 2.7
10.0	
33.0	
100.0	216 ± 9.9
166.0	240 ± 7.1
333.0	264 ± 10.1
666.0	241 ± 11.9
1000.0	142 ± 11.5
3333.0	
Trial Summary	Equivocal
Positive Control ²	837 ± 53.6
Positive Control ³	

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Test Compound: p-Nitrophenol

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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	8 ± 2.0	10 ± 1.5	10 ± 1.5	10 ± 2.1	11 ± 2.5
10.0	6 ± 0.3		13 ± 1.2		16 ± 1.8
33.0	11 ± 1.8		9 ± 1.5		8 ± 1.5
100.0	12 ± 2.3	9 ± 2.3	15 ± 2.2	13 ± 1.2	14 ± 2.1
166.0		8 ± 2.0		8 ± 1.5	
333.0	5 ± 2.0	7 ± 1.2	16 ± 1.7	10 ± 3.2	9 ± 1.5
666.0		14 ± 1.2		8 ± 0.3	
1000.0	7 ± 2.2	2 ± 0.3	10 ± 1.9	6 ± 0.9	10 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			56 ± 11.5	76 ± 2.9	103 ± 9.4
Positive Control ³	401 ± 54.9	305 ± 27.3			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 2.0
10.0	
33.0	
100.0	9 ± 2.1
166.0	9 ± 1.0
333.0	6 ± 1.2
666.0	7 ± 1.2
1000.0	5 ± 0.3
Trial Summary	Negative
Positive Control ²	55 ± 7.2
Positive Control ³	

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Test Compound: p-Nitrophenol

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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	4 ± 0.7	3 ± 1.5	8 ± 2.5	5 ± 1.5	7 ± 1.2
10.0	8 ± 2.7		7 ± 1.0		12 ± 0.6
33.0	5 ± 1.2		8 ± 1.2		6 ± 2.3
100.0	7 ± 0.7	9 ± 2.2	13 ± 2.1	6 ± 0.6	10 ± 1.8
166.0		8 ± 1.2		9 ± 2.5	
333.0	9 ± 2.6	11 ± 2.7	10 ± 3.5	9 ± 1.2	22 ± 5.5
666.0		10 ± 2.1		8 ± 1.2	
1000.0	11 ± 1.8	7 ± 2.0	14 ± 3.2	1 ± 1.0	15 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²			33 ± 9.5	21 ± 2.1	59 ± 0.7
Positive Control ⁴	34 ± 7.7	38 ± 9.1			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.3
10.0	
33.0	
100.0	7 ± 1.9
166.0	11 ± 0.9
333.0	9 ± 1.5
666.0	7 ± 2.2
1000.0	Toxic
Trial Summary	Negative
Positive Control ²	19 ± 1.3
Positive Control ⁴	

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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	16 ± 2.4	17 ± 4.1	26 ± 2.0	25 ± 0.9	22 ± 3.8
10.0	12 ± 3.2		30 ± 2.2		26 ± 2.4
33.0	14 ± 1.2		27 ± 1.5		26 ± 7.0
100.0	23 ± 2.5	25 ± 3.0	28 ± 3.1	21 ± 1.7	20 ± 2.9
166.0		25 ± 6.0		23 ± 2.3	
333.0	16 ± 2.3	33 ± 5.5	25 ± 3.5	24 ± 1.5	41 ± 9.5
666.0		27 ± 4.7		21 ± 5.9	
1000.0	15 ± 1.7	15 ± 0.3	33 ± 4.7	14 ± 1.7	49 ± 2.0
Trial Summary	Negative	Equivocal	Negative	Negative	Weakly Positive
Positive Control ²			209 ± 9.8	209 ± 15.1	674 ± 32.6
Positive Control ⁵	226 ± 7.0	216 ± 11.9			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	23 ± 1.7
10.0	
33.0	
100.0	21 ± 2.4
166.0	19 ± 5.5
333.0	27 ± 3.8
666.0	27 ± 4.4
1000.0	19 ± 2.2
Trial Summary	Negative
Positive Control ²	346 ± 38.0
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: Dimethyl Sulfoxide
- 2: 1.0 ug/Plate 2-Aminoanthracene
- 3: 3.3 ug/Plate Sodium Azide
- 4: 33.0 ug/Plate 9-Aminoacridine
- 5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **