

Experiment Number: 635953

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Rotenone

CAS Number: 83-79-4

Date Report Requested: 09/10/2018

Time Report Requested: 23:06:13

NTP Study Number:

635953

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	145 ± 13.5	159 ± 7.5	165 ± 8.4	127 ± 6.7	179 ± 10.1
100.0	139 ± 1.5	116 ± 9.7	140 ± 13.0	120 ± 5.2	175 ± 1.3
333.0	134 ± 17.0	122 ± 2.8	149 ± 9.4	123 ± 4.1	156 ± 1.5
1000.0	146 ± 17.8	110 ± 15.8 ^P	135 ± 9.2	128 ± 2.0	181 ± 11.1
3333.0	128 ± 8.2 ^P	118 ± 6.7 ^S	157 ± 11.1 ^P	131 ± 5.3 ^P	169 ± 5.0 ^P
10000.0	119 ± 5.2 ^P	124 ± 6.9 ^S	160 ± 16.8 ^P	130 ± 5.8 ^P	150 ± 12.4 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	301 ± 3.1	416 ± 16.2			
Positive Control ³			650 ± 26.8	712 ± 22.3	1405 ± 54.5

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	134 ± 1.9
100.0	100 ± 1.7
333.0	101 ± 3.8
1000.0	114 ± 10.6
3333.0	115 ± 5.3 ^P
10000.0	122 ± 1.2 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1785 ± 44.9

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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	25 ± 2.9	41 ± 2.1	34 ± 2.5	41 ± 1.8	35 ± 3.5
100.0	22 ± 2.5	34 ± 1.3	45 ± 3.8	25 ± 1.0	27 ± 1.7
333.0	25 ± 3.8	34 ± 2.9	27 ± 5.6	35 ± 1.5	24 ± 2.7
1000.0	29 ± 7.5	27 ± 1.5 ^p	38 ± 3.2	26 ± 2.6	27 ± 1.3
3333.0	28 ± 1.7 ^p	29 ± 4.3 ^p	32 ± 3.0 ^p	23 ± 3.8 ^p	23 ± 5.2 ^p
10000.0	25 ± 2.6 ^p	25 ± 1.7 ^p	32 ± 3.7 ^p	19 ± 2.1 ^p	19 ± 0.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	290 ± 6.5	536 ± 4.4			
Positive Control ⁴			167 ± 7.9	273 ± 6.9	361 ± 14.7

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 2.8
100.0	35 ± 3.4
333.0	33 ± 3.1
1000.0	37 ± 3.6
3333.0	35 ± 4.9 ^p
10000.0	25 ± 1.3 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	486 ± 4.3

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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	9 ± 2.3	10 ± 1.9	3 ± 1.2	10 ± 2.8	6 ± 1.8
100.0	10 ± 1.8	5 ± 1.8	10 ± 1.8	11 ± 1.5	5 ± 1.7
333.0	5 ± 0.3	10 ± 1.2	11 ± 2.7	9 ± 2.0	8 ± 1.9
1000.0	9 ± 3.5	7 ± 1.5 ^p	14 ± 0.9	6 ± 0.0	13 ± 1.5
3333.0	6 ± 0.9 ^p	4 ± 0.6 ^p	6 ± 0.9 ^p	6 ± 0.7 ^p	6 ± 2.0 ^p
10000.0	9 ± 1.8 ^p	8 ± 2.0 ^p	9 ± 2.7 ^p	6 ± 1.0 ^p	7 ± 0.7 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			184 ± 20.9	178 ± 5.8	546 ± 9.9
Positive Control ⁵	226 ± 29.6	667 ± 30.4			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 2.1
100.0	7 ± 1.2
333.0	5 ± 1.5
1000.0	4 ± 0.0
3333.0	7 ± 1.0 ^p
10000.0	7 ± 1.0 ^p
Trial Summary	Negative
Positive Control ⁴	537 ± 19.5
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	28 ± 1.2	28 ± 1.5	37 ± 4.1	38 ± 3.8	40 ± 1.8
100.0	23 ± 3.5	24 ± 5.4	37 ± 7.2	38 ± 3.5	34 ± 3.6
333.0	17 ± 0.3	25 ± 4.1	47 ± 5.2	31 ± 1.0	36 ± 2.4
1000.0	19 ± 0.9	25 ± 2.5 ^p	39 ± 7.6	27 ± 3.8	38 ± 7.9
3333.0	20 ± 4.6 ^p	24 ± 2.0 ^p	29 ± 5.5 ^p	36 ± 5.4 ^p	40 ± 0.6 ^p
10000.0	20 ± 1.2 ^p	16 ± 2.5 ^p	32 ± 6.2 ^p	32 ± 3.2 ^p	40 ± 3.4 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			456 ± 22.4	560 ± 28.4	1211 ± 47.4
Positive Control ⁶	693 ± 35.3	852 ± 8.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	40 ± 4.3
100.0	34 ± 3.7
333.0	31 ± 0.7
1000.0	29 ± 1.0
3333.0	29 ± 2.3 ^P
10000.0	30 ± 1.7 ^P
Trial Summary	Negative
Positive Control ³	1738 ± 38.5
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: 95% Ethanol

2: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

** END OF REPORT **