

Experiment Number: 470644

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: o-Phenylphenol

CAS Number: 90-43-7

Date Report Requested: 09/11/2018

Time Report Requested: 16:05:31

NTP Study Number:

470644

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	83 ± 6.6	108 ± 12.7	95 ± 5.8	82 ± 8.3	154 ± 8.4
1.0		80 ± 4.3	93 ± 2.5		116 ± 7.1
3.3	75 ± 0.7	84 ± 6.8	103 ± 2.6	120 ± 10.7	118 ± 6.8
10.0	79 ± 3.2	107 ± 5.8	109 ± 3.3	117 ± 6.2	128 ± 7.0
33.0	81 ± 7.5	108 ± 3.2	85 ± 2.3	123 ± 9.5	129 ± 15.7
100.0	Toxic	82 ± 5.8	57 ± 5.0	88 ± 11.2	78 ± 5.5
333.0	0 ± 0.0			Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				635 ± 27.7	2402 ± 162.3
Positive Control ³	910 ± 28.7	873 ± 198.6	810 ± 22.4		

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	116 ± 21.4	119 ± 4.7
1.0		
3.3	123 ± 9.8	120 ± 9.7
10.0	117 ± 15.8	133 ± 8.1
33.0	127 ± 8.4	132 ± 5.4
100.0	115 ± 9.8	94 ± 10.5
333.0	Toxic	4 ± 3.1
Trial Summary	Negative	Negative
Positive Control ²	2419 ± 125.4	2704 ± 49.9
Positive Control ³		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	10 ± 2.0	7 ± 1.8	11 ± 1.7	6 ± 1.2	9 ± 2.3
0.3				8 ± 0.7	10 ± 1.5
1.0				11 ± 1.5	13 ± 1.9
3.3	5 ± 0.3	9 ± 0.9	10 ± 1.2	8 ± 1.7	8 ± 1.2
10.0	11 ± 1.2	5 ± 0.0	10 ± 0.9	7 ± 1.2	10 ± 1.8
33.0	7 ± 0.3	6 ± 1.2	11 ± 2.5	13 ± 2.6	6 ± 1.7
100.0	2 ± 0.0	3 ± 0.7	Toxic		
333.0	4 ± 0.6	0 ± 0.3	2 ± 2.3		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			188 ± 7.5	100 ± 5.6	260 ± 15.6
Positive Control ³	874 ± 44.9	254 ± 4.2			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	11 ± 0.7	13 ± 0.6
0.3		
1.0		
3.3	11 ± 0.3	8 ± 0.9
10.0	10 ± 0.6	9 ± 0.6
33.0	10 ± 1.5	11 ± 1.8
100.0	8 ± 0.7	7 ± 1.5
333.0	6 ± 0.3	0 ± 0.3
Trial Summary	Negative	Negative
Positive Control ⁴	65 ± 11.1	95 ± 26.3
Positive Control ³		

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	10 ± 0.9	5 ± 0.3	6 ± 2.3	10 ± 2.3	5 ± 1.5
0.3		5 ± 1.0	4 ± 0.0		10 ± 2.3
1.0		4 ± 2.0	6 ± 1.2		9 ± 1.7
3.3	9 ± 2.0	3 ± 0.7	8 ± 1.2	9 ± 0.9	6 ± 0.9
10.0	6 ± 0.9	2 ± 1.0	7 ± 1.2	9 ± 1.8	8 ± 1.9
33.0	8 ± 1.9	5 ± 1.2	9 ± 1.7	12 ± 1.5	7 ± 1.5
100.0	0 ± 0.3			Toxic	
333.0	0 ± 0.3			0 ± 0.3	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				191 ± 12.9	247 ± 78.4
Positive Control ⁵	813 ± 65.0	253 ± 59.7	685 ± 198.7		

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.7	9 ± 0.7	7 ± 0.6
0.3	5 ± 0.3		
1.0	7 ± 1.0		6 ± 1.2
3.3	8 ± 2.4	9 ± 2.2	7 ± 1.2
10.0	5 ± 2.0	11 ± 1.5	9 ± 1.7
33.0	7 ± 0.3	8 ± 0.7	8 ± 1.5
100.0		10 ± 0.3	7 ± 1.9
333.0		0 ± 0.0	
Trial Summary	Negative	Negative	Negative
Positive Control ⁴	246 ± 4.3	98 ± 27.4	261 ± 15.5
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	13 ± 1.2	12 ± 2.9	17 ± 4.4	15 ± 1.9	12 ± 2.1
1.0		12 ± 1.5		14 ± 1.2	
3.3	19 ± 3.6	12 ± 1.9	15 ± 1.5	19 ± 2.6	17 ± 1.2
10.0	18 ± 2.7	14 ± 0.9	13 ± 0.3	15 ± 1.5	17 ± 3.2
33.0	13 ± 0.7	12 ± 2.0	11 ± 1.7	15 ± 4.2	25 ± 7.4
100.0	12 ± 0.9	2 ± 1.5	9 ± 3.0	18 ± 2.0	15 ± 0.3
333.0	0 ± 0.0		0 ± 0.0		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²			482 ± 42.2	1527 ± 47.3	1003 ± 55.2
Positive Control ⁶	183 ± 43.5	177 ± 14.6			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 2.1	15 ± 2.3
1.0		14 ± 1.3
3.3	22 ± 2.5	11 ± 1.2
10.0	15 ± 3.7	13 ± 2.7
33.0	20 ± 2.2	16 ± 1.7
100.0	20 ± 3.5	15 ± 2.1
333.0	1 ± 0.9	
Trial Summary	Negative	Negative
Positive Control ²	1984 ± 161.1	362 ± 40.1
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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **