

Experiment Number: A71314

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Phenolphthalein**

CAS Number: **77-09-8**

Date Report Requested: **09/17/2018**

Time Report Requested: **18:33:38**

NTP Study Number:

A71314

Study Result:

Equivocal

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	109 ± 16.2	95 ± 8.3	109 ± 9.0	108 ± 9.3	106 ± 11.2
3.0	94 ± 1.2	91 ± 8.2			
10.0	97 ± 9.5	93 ± 2.7			
33.0	92 ± 7.2	105 ± 8.4	98 ± 6.4	119 ± 9.4	125 ± 15.3
100.0	80 ± 0.3	90 ± 5.0	100 ± 6.9	129 ± 5.0	141 ± 2.1
166.0			110 ± 20.1	103 ± 2.7	
333.0	31 ± 12.9 ^s	14 ± 3.2 ^x	83 ± 5.0	91 ± 7.0	146 ± 11.0
666.0			87 ± 5.0 ^s	85 ± 0.3 ^s	
1000.0					96 ± 4.6 ^s
3333.0					62 ± 4.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					
Positive Control ³			485 ± 7.2	315 ± 157.5	
Positive Control ⁴	848 ± 15.7	834 ± 6.7			
Positive Control ⁵					458 ± 17.9

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	126 ± 4.9	91 ± 0.7	94 ± 1.9	108 ± 11.6	130 ± 6.5
3.0					
10.0					
33.0	112 ± 14.1	88 ± 3.9	114 ± 4.2	92 ± 7.2	143 ± 5.4
100.0	127 ± 1.5	94 ± 2.5	115 ± 10.3	142 ± 8.0	118 ± 4.0
166.0	110 ± 11.5	96 ± 4.0	88 ± 1.2		145 ± 2.6
333.0	116 ± 9.2	74 ± 6.4	92 ± 1.7	143 ± 6.8	135 ± 8.4
666.0	107 ± 5.5	69 ± 3.9 ^s	77 ± 3.7 ^s		122 ± 11.7
1000.0				94 ± 22.6 ^s	
3333.0				52 ± 4.2 ^s	
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²		541 ± 9.5	526 ± 13.8		
Positive Control ³				506 ± 10.1	482 ± 10.5
Positive Control ⁴					
Positive Control ⁵	415 ± 9.4				

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.2	11 ± 2.0	7 ± 0.3	10 ± 3.2	6 ± 0.9
3.0	10 ± 0.3	7 ± 1.7			
10.0	11 ± 1.0	9 ± 2.2	7 ± 0.7		6 ± 0.9
33.0	10 ± 0.6	7 ± 0.7	7 ± 0.7	10 ± 0.9	6 ± 1.5
100.0	9 ± 0.7	5 ± 2.1	9 ± 2.2	7 ± 1.7	6 ± 0.3
333.0	2 ± 0.9 ^x	Toxic	5 ± 0.9	7 ± 1.2	3 ± 0.3
666.0			2 ± 0.3 ^s		0 ± 0.0 ^x
1000.0				4 ± 0.9	
3333.0				2 ± 0.0 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					166 ± 7.8
Positive Control ⁵			134 ± 15.3		
Positive Control ⁴	913 ± 16.4	922 ± 13.6			
Positive Control ⁶				119 ± 13.2	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	8 ± 1.7
3.0	
10.0	
33.0	8 ± 2.0
100.0	9 ± 2.4
333.0	8 ± 1.5
666.0	
1000.0	5 ± 0.9
3333.0	1 ± 0.3 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁵	145 ± 4.7
Positive Control ⁴	
Positive Control ⁶	

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Strain: TA1537

Dose (ug/Plate)	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.2	8 ± 1.0	9 ± 0.9	9 ± 2.3	7 ± 1.5
33.0	8 ± 0.3	12 ± 1.7	9 ± 0.3	9 ± 0.3	8 ± 0.7
100.0	6 ± 1.9	10 ± 0.3	6 ± 0.9	8 ± 1.2	7 ± 0.9
166.0	5 ± 0.6	8 ± 1.5	12 ± 3.4	6 ± 0.9	6 ± 0.9
333.0	7 ± 0.7	8 ± 1.0	7 ± 0.9	6 ± 0.7	9 ± 1.5
666.0	9 ± 0.3	8 ± 1.5	9 ± 0.0	8 ± 2.2	9 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³				121 ± 5.7	112 ± 7.8
Positive Control ⁵	110 ± 9.3	133 ± 11.4			
Positive Control ⁶			92 ± 5.8		

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Strain: TA1537

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.5
33.0	9 ± 0.3
100.0	8 ± 2.0
166.0	5 ± 0.6
333.0	7 ± 0.3
666.0	6 ± 1.5
Trial Summary	Negative
Positive Control ³	
Positive Control ⁵	97 ± 4.4
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	119 ± 8.0	122 ± 8.2	145 ± 5.4	162 ± 2.5	174 ± 9.6
3.0	144 ± 3.2	140 ± 7.0			
10.0	153 ± 11.3	119 ± 15.0			
33.0	140 ± 15.3	140 ± 5.4	152 ± 2.0	172 ± 5.5	205 ± 2.6
100.0	145 ± 5.8	140 ± 6.4	139 ± 3.5	167 ± 5.7	227 ± 6.7
166.0			125 ± 11.1	179 ± 10.5	
333.0	Toxic	Toxic	102 ± 6.7 ^s	102 ± 11.9 ^s	221 ± 10.2
666.0			Toxic	70 ± 4.6 ^x	
1000.0					122 ± 24.5 ^s
3333.0					Toxic
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					
Positive Control ³			463 ± 20.2	454 ± 13.6	
Positive Control ⁵					447 ± 15.9
Positive Control ⁷	480 ± 9.5	465 ± 15.3			

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	175 ± 7.8	136 ± 4.7	123 ± 6.1	124 ± 9.3	167 ± 8.4
3.0					
10.0					
33.0	190 ± 8.5	127 ± 11.0	139 ± 6.5	141 ± 0.7	180 ± 3.8
100.0	223 ± 4.9	154 ± 2.7	160 ± 8.3	145 ± 5.3	195 ± 6.8
166.0	242 ± 20.1	123 ± 5.3	143 ± 10.2		205 ± 2.8
333.0	233 ± 11.6	68 ± 7.1 ^s	113 ± 5.8 ^s	204 ± 11.3	198 ± 13.0
666.0	121 ± 16.6 ^s	0 ± 0.0 ^x	82 ± 11.0 ^x		156 ± 28.5 ^s
1000.0				87 ± 3.9 ^s	
3333.0				Toxic	
Trial Summary	Equivocal	Negative	Equivocal	Equivocal	Equivocal
Positive Control ²		481 ± 10.2	480 ± 16.4		
Positive Control ³				532 ± 22.2	464 ± 21.4
Positive Control ⁵	407 ± 6.5				
Positive Control ⁷					

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.3	14 ± 1.7	19 ± 3.5	16 ± 1.5	17 ± 1.2
3.0	7 ± 0.9	19 ± 2.9			
10.0	7 ± 0.9	16 ± 1.3	21 ± 2.0		17 ± 1.3
33.0	12 ± 1.8	16 ± 3.8	20 ± 3.2	11 ± 1.0	17 ± 2.3
100.0	12 ± 0.7	15 ± 1.3	23 ± 5.2	16 ± 0.9	23 ± 2.3
333.0	2 ± 0.3 ^s	2 ± 2.0 ^x	13 ± 0.7	16 ± 1.2	22 ± 2.6 ^s
666.0			7 ± 2.0 ^s		6 ± 1.9 ^x
1000.0				8 ± 0.6 ^s	
3333.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					364 ± 19.7
Positive Control ³			359 ± 6.7		
Positive Control ⁸	346 ± 12.1	377 ± 14.2			
Positive Control ⁵				337 ± 19.3	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 1.5
3.0	
10.0	
33.0	9 ± 1.2
100.0	17 ± 0.6
333.0	12 ± 1.8
666.0	
1000.0	11 ± 0.6 ^s
3333.0	Toxic
Trial Summary	Negative
Positive Control ²	
Positive Control ³	423 ± 13.0
Positive Control ⁸	
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: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

x: Slight Toxicity and Precipitate

**** END OF REPORT ****