

Experiment Number: 418730

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Diphenylurea

CAS Number: 102-07-8

Date Report Requested: 09/14/2018

Time Report Requested: 23:52:07

NTP Study Number:

418730

Study Result:

Equivocal

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	128 ± 6.4	91 ± 7.1	114 ± 1.7	148 ± 13.0	122 ± 11.7
100.0	154 ± 7.0	108 ± 6.5	132 ± 2.6	137 ± 12.1	109 ± 7.8
333.0	149 ± 4.6	119 ± 9.2	113 ± 2.2	105 ± 14.2	123 ± 6.1
1000.0	123 ± 6.1 ^P	123 ± 4.5 ^P	115 ± 4.1 ^P	108 ± 6.8 ^P	94 ± 4.5 ^P
3333.0	96 ± 6.4 ^P	135 ± 11.9 ^P	96 ± 3.5 ^P	103 ± 5.5 ^P	88 ± 7.7 ^P
10000.0	100 ± 3.2 ^P	133 ± 12.5 ^P	72 ± 10.8 ^P	131 ± 36.8 ^P	75 ± 7.4 ^P
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ²	272 ± 10.0	306 ± 17.3			
Positive Control ³			637 ± 18.0	667 ± 8.7	1178 ± 3.5

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	142 ± 11.1
100.0	133 ± 15.9
333.0	128 ± 3.0
1000.0	119 ± 4.6 ^P
3333.0	132 ± 6.4 ^P
10000.0	120 ± 6.4 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1287 ± 37.3

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	29 ± 3.2	33 ± 2.1	24 ± 1.0	28 ± 3.2	12 ± 0.9
3.0			25 ± 0.9	22 ± 1.2	
10.0			24 ± 5.0	27 ± 6.4	
33.0			43 ± 5.3	29 ± 3.5	
100.0	46 ± 0.9	51 ± 7.7	38 ± 6.0	36 ± 3.8	11 ± 2.1
333.0	47 ± 3.9	51 ± 4.5	38 ± 2.7	29 ± 1.5	11 ± 2.2
1000.0	52 ± 4.5 ^P	44 ± 0.9 ^P			11 ± 2.3 ^P
3333.0	40 ± 8.9 ^P	32 ± 1.7 ^P			9 ± 1.5 ^P
10000.0	56 ± 0.4 ^P	24 ± 3.3 ^P			6 ± 0.3 ^P
Trial Summary	Weakly Positive	Equivocal	Equivocal	Negative	Negative
Positive Control ²	239 ± 19.8	396 ± 25.2	383 ± 22.7	673 ± 2.0	
Positive Control ⁴					259 ± 10.7

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Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.9	8 ± 3.2	9 ± 2.3
3.0			
10.0			
33.0			
100.0	6 ± 1.5	9 ± 2.5	10 ± 1.5
333.0	9 ± 1.0	8 ± 1.5	10 ± 3.5
1000.0	7 ± 0.9 ^p	14 ± 3.2 ^p	11 ± 0.6 ^p
3333.0	9 ± 0.9 ^p	10 ± 1.2 ^p	10 ± 0.9 ^p
10000.0	5 ± 0.9 ^p	6 ± 1.5 ^p	7 ± 1.8 ^p
Trial Summary	Negative	Negative	Negative
Positive Control ²			
Positive Control ⁴	340 ± 31.2	513 ± 50.6	719 ± 14.1

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	97 ± 11.1	127 ± 9.0	162 ± 9.0	204 ± 10.9	160 ± 1.5
100.0	102 ± 3.5	149 ± 8.0	188 ± 16.0	255 ± 8.7	176 ± 2.6
333.0	103 ± 7.8	164 ± 12.9	190 ± 10.6	242 ± 11.9	162 ± 7.4
1000.0	132 ± 9.7 ^P	144 ± 5.4 ^P	181 ± 8.2 ^P	226 ± 29.5 ^P	166 ± 20.7 ^P
3333.0	117 ± 15.6 ^P	124 ± 4.5 ^P	145 ± 9.9 ^P	231 ± 9.3 ^P	159 ± 2.6 ^P
10000.0	101 ± 6.2 ^P	129 ± 11.5 ^P	138 ± 29.3 ^P	178 ± 20.1 ^P	140 ± 12.2 ^P
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ⁴			1017 ± 18.3	1067 ± 38.8	1254 ± 99.7
Positive Control ⁵	927 ± 39.1	548 ± 29.5			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	200 ± 12.0
100.0	199 ± 8.7
333.0	157 ± 31.5
1000.0	173 ± 1.9 ^P
3333.0	162 ± 10.2 ^P
10000.0	122 ± 8.0 ^P
Trial Summary	Negative
Positive Control ⁴	1376 ± 46.8
Positive Control ⁵	

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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	13 ± 3.4	17 ± 1.5	29 ± 0.6	28 ± 1.9	25 ± 0.9
100.0	15 ± 1.5	13 ± 1.7	33 ± 2.0	25 ± 4.7	34 ± 9.7
333.0	14 ± 2.6	11 ± 0.6	32 ± 0.7	23 ± 3.5	23 ± 1.7
1000.0	15 ± 3.2 ^p	14 ± 1.9 ^p	28 ± 3.1 ^p	21 ± 3.5 ^p	28 ± 1.2 ^p
3333.0	13 ± 2.4 ^p	9 ± 0.9 ^p	26 ± 3.3 ^p	19 ± 0.7 ^p	30 ± 1.2 ^p
10000.0	10 ± 2.3 ^p	10 ± 1.5 ^p	20 ± 0.3 ^p	23 ± 2.3 ^p	20 ± 5.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			344 ± 20.2	384 ± 7.6	945 ± 52.1
Positive Control ⁶	814 ± 35.0	657 ± 37.9			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	30 ± 3.0
100.0	29 ± 2.3
333.0	29 ± 0.9
1000.0	24 ± 0.3 ^P
3333.0	26 ± 3.5 ^P
10000.0	18 ± 3.7 ^P
Trial Summary	Negative
Positive Control ³	780 ± 40.8
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 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

** END OF REPORT **