

Experiment Number: 281912

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Divinylbenzene

CAS Number: 1321-74-0

Date Report Requested: 09/11/2018

Time Report Requested: 15:04:30

NTP Study Number:

281912

Study Result:

Negative

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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	123 ± 3.7	129 ± 3.8	134 ± 6.6	115 ± 5.5	118 ± 6.2
0.3	120 ± 10.4	117 ± 4.0			
1.0	137 ± 3.8	112 ± 5.7	119 ± 5.8	116 ± 7.5	103 ± 10.0
3.3	135 ± 6.7	124 ± 6.3	128 ± 4.3	102 ± 9.8	132 ± 1.9
10.0	127 ± 3.3	108 ± 6.8	147 ± 9.3	112 ± 5.5	112 ± 10.0
33.0	125 ± 4.7 ^s	114 ± 11.8 ^s	126 ± 3.5	120 ± 3.0	112 ± 10.5
100.0			126 ± 3.3 ^s	105 ± 5.0	112 ± 10.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1022 ± 8.5
Positive Control ³			969 ± 21.7		
Positive Control ⁴				702 ± 5.8	
Positive Control ⁵	1293 ± 27.1	1434 ± 27.9			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	122 ± 4.0
0.3	
1.0	104 ± 8.3
3.3	102 ± 8.4
10.0	105 ± 7.6
33.0	119 ± 9.3
100.0	100 ± 10.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1017 ± 49.6
Positive Control ⁵	

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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	35 ± 2.4	36 ± 0.9	16 ± 1.2	15 ± 2.2	10 ± 0.9
0.3	28 ± 3.4	33 ± 5.5			
1.0	30 ± 3.4	33 ± 1.2	16 ± 2.6	20 ± 2.2	12 ± 4.0
3.3	34 ± 3.0	40 ± 2.3	15 ± 1.3	19 ± 1.5	9 ± 0.7
10.0	30 ± 3.8	30 ± 0.7	15 ± 2.6	16 ± 1.9	14 ± 0.9
33.0	29 ± 1.2 ^s	37 ± 3.3 ^s	13 ± 2.6	12 ± 0.6	13 ± 1.2
100.0			14 ± 1.5 ^s	16 ± 1.8 ^s	8 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					110 ± 4.4
Positive Control ³			136 ± 9.1		
Positive Control ⁴				167 ± 15.2	
Positive Control ⁵	988 ± 3.7	1053 ± 31.3			

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 0.6
0.3	
1.0	12 ± 2.5
3.3	21 ± 1.7
10.0	18 ± 2.6
33.0	15 ± 1.9
100.0	13 ± 2.6 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	247 ± 12.3
Positive Control ⁵	

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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	105 ± 1.2	117 ± 6.6	145 ± 11.7	211 ± 12.7	131 ± 1.2
0.3	114 ± 4.8	111 ± 8.2			
1.0	92 ± 5.0	95 ± 5.0	170 ± 6.2	225 ± 3.8	120 ± 9.6
3.3	92 ± 1.2	95 ± 1.5	171 ± 8.9	228 ± 10.1	128 ± 3.9
10.0	86 ± 9.3	99 ± 3.8	160 ± 4.3	201 ± 3.5	136 ± 10.1
33.0	101 ± 5.8 ^s	100 ± 3.2 ^s	180 ± 4.2	222 ± 14.5	131 ± 4.7
100.0			147 ± 8.2 ^s	192 ± 5.8 ^s	129 ± 6.1 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					664 ± 30.9
Positive Control ³			644 ± 13.8		
Positive Control ⁴				499 ± 34.2	
Positive Control ⁶	592 ± 26.3	1198 ± 59.0			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	185 ± 9.3
0.3	
1.0	200 ± 7.0
3.3	206 ± 5.2
10.0	179 ± 13.1
33.0	215 ± 8.4
100.0	208 ± 2.3 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	789 ± 38.4
Positive Control ⁶	

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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	18 ± 1.5	18 ± 3.6	34 ± 0.6	33 ± 4.5	32 ± 0.9
0.3	16 ± 1.8	17 ± 0.9			
1.0	14 ± 1.7	16 ± 3.6	30 ± 1.2	32 ± 3.9	28 ± 4.3
3.3	18 ± 2.6	18 ± 1.5	31 ± 1.2	37 ± 3.7	34 ± 3.5
10.0	15 ± 1.7	20 ± 2.5	41 ± 1.9	34 ± 4.5	37 ± 4.4
33.0	17 ± 1.2 ^s	14 ± 2.0 ^s	32 ± 4.1	37 ± 1.8	35 ± 1.2
100.0			31 ± 1.2 ^s	27 ± 4.1	28 ± 2.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1063 ± 27.6
Positive Control ³			1028 ± 42.9		
Positive Control ⁴				372 ± 25.1	
Positive Control ⁷	1489 ± 20.5	2068 ± 110.6			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	31 ± 3.8
0.3	
1.0	30 ± 3.9
3.3	36 ± 1.0
10.0	37 ± 6.1
33.0	31 ± 0.3
100.0	33 ± 2.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	832 ± 129.8
Positive Control ⁷	

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **