

Experiment Number: 209298

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Diethylstilbestrol

CAS Number: 56-53-1

Date Report Requested: 09/14/2018

Time Report Requested: 14:51:03

NTP Study Number:

209298

Study Result:

Negative

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Test Compound: Diethylstilbestrol

CAS Number: 56-53-1

Date Report Requested: 09/14/2018

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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	87 ± 2.3	81 ± 19.0	129 ± 4.4	121 ± 13.6	125 ± 6.3
0.03		92 ± 0.9			
0.1	81 ± 4.8	93 ± 4.7			
0.3	100 ± 4.5	91 ± 5.2		108 ± 1.9	
1.0	90 ± 6.3	94 ± 5.6	119 ± 8.1	107 ± 4.4	117 ± 6.4
3.3	75 ± 3.5 ^s	74 ± 1.5 ^s	126 ± 10.5	98 ± 9.3	129 ± 3.3
6.6	68 ± 2.3 ^s				
10.0			113 ± 6.8	101 ± 12.9	112 ± 5.9
33.0			117 ± 7.1 ^s	113 ± 5.8	122 ± 10.4 ^s
66.0			92 ± 2.3 ^s		111 ± 3.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					919 ± 29.9
Positive Control ³			1124 ± 40.8		
Positive Control ⁴				481 ± 22.5	
Positive Control ⁵	1268 ± 35.9	1096 ± 23.1			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	106 ± 3.7
0.03	
0.1	
0.3	110 ± 2.6
1.0	97 ± 2.2
3.3	117 ± 2.3
6.6	
10.0	101 ± 5.9
33.0	114 ± 10.3
66.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1173 ± 71.7
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	24 ± 3.5	22 ± 2.6	34 ± 3.2	24 ± 2.7	34 ± 1.5
0.03		24 ± 1.7			
0.1	19 ± 5.4	18 ± 4.6			
0.3	19 ± 2.3	20 ± 1.9		22 ± 3.5	
1.0	14 ± 1.5	24 ± 0.6	36 ± 4.0	23 ± 3.4	34 ± 5.0
3.3	15 ± 2.0 ^s	16 ± 2.4 ^s	32 ± 6.5	22 ± 2.6	31 ± 2.6
6.6	12 ± 2.3 ^s				
10.0			31 ± 6.3	22 ± 6.7	37 ± 4.3
33.0			30 ± 4.4 ^s	23 ± 4.5	32 ± 4.4 ^s
66.0			26 ± 0.0 ^s		22 ± 2.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					77 ± 2.0
Positive Control ³			101 ± 3.3		
Positive Control ⁴				154 ± 5.4	
Positive Control ⁵	1012 ± 16.3	1056 ± 41.9			

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	19 ± 3.5
0.03	
0.1	
0.3	24 ± 2.3
1.0	25 ± 2.1
3.3	24 ± 1.0
6.6	
10.0	25 ± 0.9
33.0	21 ± 0.3
66.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	221 ± 15.8
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	59 ± 0.3	106 ± 2.9	140 ± 9.3	141 ± 4.2	134 ± 8.3
0.03		100 ± 8.8			
0.1	58 ± 1.7	106 ± 4.9			
0.3	54 ± 1.5	100 ± 3.5		127 ± 5.5	
1.0	53 ± 1.2	107 ± 5.2	120 ± 9.0	116 ± 8.3	128 ± 5.2
3.3	57 ± 4.0 ^s	86 ± 3.5 ^s	140 ± 7.9	110 ± 14.2	120 ± 2.2
6.6	39 ± 2.0 ^s				
10.0			142 ± 3.2	113 ± 9.9	116 ± 5.7
33.0			121 ± 8.1 ^s	106 ± 8.1	112 ± 6.2 ^s
66.0			104 ± 2.3 ^s		119 ± 2.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					694 ± 4.3
Positive Control ³			936 ± 37.6		
Positive Control ⁴				432 ± 36.3	
Positive Control ⁶	1780 ± 104.4	739 ± 18.0			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	134 ± 0.7
0.03	
0.1	
0.3	132 ± 6.4
1.0	129 ± 6.1
3.3	145 ± 6.4
6.6	
10.0	134 ± 5.4
33.0	135 ± 5.8
66.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	521 ± 26.2
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	21 ± 0.9	24 ± 0.9	43 ± 6.4	26 ± 3.8	34 ± 2.9
0.03		26 ± 2.3			
0.1	22 ± 2.7	23 ± 3.2			
0.3	22 ± 4.0	25 ± 0.9		33 ± 2.3	
1.0	24 ± 1.7	26 ± 1.7	38 ± 1.2	44 ± 2.0	40 ± 2.9
3.3	19 ± 4.7	19 ± 2.1 ^s	42 ± 6.4	35 ± 2.0	40 ± 2.7
6.6	23 ± 2.0 ^s				
10.0			44 ± 3.8	37 ± 4.4	38 ± 1.5
33.0			42 ± 1.2	36 ± 4.9	41 ± 3.2
66.0			42 ± 4.2 ^s		34 ± 2.7 ^s
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					718 ± 22.8
Positive Control ³			958 ± 34.4		
Positive Control ⁴				412 ± 18.9	
Positive Control ⁷	1888 ± 194.5	1736 ± 91.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	32 ± 1.5
0.03	
0.1	
0.3	35 ± 3.7
1.0	34 ± 4.3
3.3	31 ± 1.3
6.6	
10.0	34 ± 4.4
33.0	33 ± 2.9
66.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1208 ± 42.8
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: 95% Ethanol

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 **