

Experiment Number: 018582

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Ethinyl estradiol

CAS Number: 57-63-6

Date Report Requested: 09/14/2018

Time Report Requested: 07:19:28

NTP Study Number:

018582

Study Result:

Negative

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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	134 ± 5.5	147 ± 15.5	143 ± 14.4	133 ± 10.7	138 ± 1.7
1.0	146 ± 6.2	129 ± 19.1			
3.0	145 ± 3.8	131 ± 13.4			
10.0	149 ± 6.1	117 ± 2.4			
33.0	140 ± 9.7	109 ± 4.4		148 ± 8.7	
100.0	90 ± 12.4	113 ± 9.6	154 ± 5.7	135 ± 9.9	136 ± 10.1
333.0			99 ± 9.3	125 ± 7.6	110 ± 6.9
1000.0			105 ± 12.5	95 ± 14.1	118 ± 6.4
3333.0			119 ± 14.3 ^P	91 ± 2.6 ^P	102 ± 7.1 ^P
10000.0			72 ± 8.4 ^X		104 ± 1.8 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					2465 ± 15.0
Positive Control ³			2462 ± 83.6	336 ± 6.1	
Positive Control ⁴	497 ± 9.2	654 ± 3.9			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	141 ± 5.5
1.0	
3.0	
10.0	
33.0	
100.0	121 ± 11.0
333.0	122 ± 18.3
1000.0	97 ± 4.8
3333.0	73 ± 11.8 ^p
10000.0	62 ± 11.0 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	850 ± 58.1
Positive Control 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	23 ± 3.2	26 ± 1.2	8 ± 0.3	11 ± 1.2	7 ± 1.5
1.0	25 ± 2.8	25 ± 2.0			
3.0	28 ± 2.3	23 ± 1.5			
10.0	30 ± 3.8	27 ± 1.5			
33.0	34 ± 4.7	26 ± 1.2		11 ± 1.3	
100.0	23 ± 4.0	20 ± 2.9	9 ± 1.7	12 ± 1.2	11 ± 1.5
333.0			8 ± 0.6	12 ± 3.5	6 ± 0.9
1000.0			5 ± 0.9	11 ± 1.2	7 ± 1.2
3333.0			5 ± 0.6 ^p	5 ± 0.6 ^p	7 ± 1.7 ^p
10000.0			8 ± 2.8 ^p		6 ± 0.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					698 ± 25.8
Positive Control ⁴	545 ± 26.4	586 ± 42.3			
Positive Control ⁵			549 ± 14.5	147 ± 6.1	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 0.3
1.0	
3.0	
10.0	
33.0	
100.0	7 ± 0.9
333.0	8 ± 0.6
1000.0	7 ± 0.7
3333.0	6 ± 0.6 ^P
10000.0	6 ± 1.7 ^P
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	617 ± 47.8

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Date Report Requested: 09/14/2018

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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	151 ± 8.1	119 ± 9.9	165 ± 8.1	197 ± 2.0	143 ± 3.3
1.0	153 ± 1.5	150 ± 4.8			
3.0	147 ± 4.4	143 ± 3.8			
10.0	157 ± 8.3	149 ± 6.4			
33.0	160 ± 6.7	131 ± 19.5		189 ± 19.3	
100.0	92 ± 5.4	114 ± 11.2	175 ± 5.7	206 ± 0.3	195 ± 6.4
333.0			129 ± 0.6	185 ± 17.1	177 ± 5.8
1000.0			151 ± 14.5	134 ± 9.5	192 ± 13.4
3333.0			117 ± 9.8 ^x	98 ± 1.5 ^p	141 ± 8.0 ^p
10000.0			80 ± 4.9 ^x		156 ± 14.6 ^p
Trial Summary	Negative	Equivocal	Negative	Negative	Equivocal
Positive Control ²					1826 ± 9.8
Positive Control ³			1836 ± 29.3		
Positive Control ⁵				555 ± 31.7	
Positive Control ⁶	1219 ± 121.3	561 ± 27.0			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	184 ± 10.7
1.0	
3.0	
10.0	
33.0	
100.0	169 ± 22.0
333.0	193 ± 10.4
1000.0	150 ± 10.9
3333.0	90 ± 13.4 ^p
10000.0	59 ± 5.2 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ³	621 ± 10.0
Positive Control ⁵	
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	20 ± 2.4	23 ± 0.7	30 ± 0.6	31 ± 0.9	35 ± 7.0
1.0	24 ± 1.9	26 ± 3.2			
3.0	21 ± 4.9	21 ± 1.5			
10.0	26 ± 5.5	21 ± 2.0			
33.0	27 ± 2.0	26 ± 1.2		35 ± 3.3	
100.0	15 ± 2.2	18 ± 1.3	30 ± 0.9	33 ± 5.2	32 ± 4.2
333.0			25 ± 0.9	32 ± 3.8	26 ± 2.5
1000.0			28 ± 1.5	30 ± 2.5	27 ± 3.5
3333.0			33 ± 4.6 ^X	37 ± 1.2 ^P	24 ± 2.8 ^P
10000.0			25 ± 1.5 ^X		26 ± 2.6 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1971 ± 95.5
Positive Control ³			1680 ± 85.3	177 ± 10.7	
Positive Control ⁷	896 ± 8.8	1185 ± 36.3			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	36 ± 1.8
1.0	
3.0	
10.0	
33.0	
100.0	40 ± 0.6
333.0	36 ± 6.8
1000.0	36 ± 3.3
3333.0	25 ± 1.5 ^P
10000.0	24 ± 3.1 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	620 ± 10.3
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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

x: Slight Toxicity and Precipitate

** END OF REPORT **