

Experiment Number: A36310

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

G06: Ames Summary Data

Test Compound: **17beta-Estradiol**

CAS Number: **50-28-2**

Date Report Requested: **09/16/2018**

Time Report Requested: **18:34:37**

NTP Study Number:

A36310

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	143 ± 4.7	151 ± 7.6	131 ± 2.3	145 ± 9.8	134 ± 9.8
0.0		0 ± 0.0	0 ± 0.0		0 ± 0.0
100.0	123 ± 6.0	132 ± 9.8	164 ± 8.3	143 ± 2.2	136 ± 3.5
333.0	117 ± 15.4	133 ± 4.1	147 ± 3.8	130 ± 7.7	148 ± 22.2
1000.0	138 ± 4.3 ^p	137 ± 1.8 ^p	149 ± 11.1 ^p	141 ± 6.3 ^p	140 ± 7.6 ^p
3333.0	139 ± 3.2 ^p	132 ± 5.2 ^p	143 ± 5.8 ^p	135 ± 12.4 ^p	152 ± 13.2 ^p
10000.0	107 ± 16.8 ^p	118 ± 9.0 ^p	129 ± 5.4 ^x	85 ± 14.7 ^x	134 ± 4.6 ^x
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1168 ± 41.1
Positive Control ³			960 ± 72.9		
Positive Control ⁴	920 ± 15.6	968 ± 36.8			
Positive Control ⁵				560 ± 57.4	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	125 ± 10.4
0.0	
100.0	124 ± 5.8
333.0	128 ± 3.3
1000.0	118 ± 14.8 ^p
3333.0	127 ± 9.8 ^p
10000.0	65 ± 16.8 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ³	494 ± 55.0
Positive Control ⁴	
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	14 ± 2.0	11 ± 0.7	11 ± 2.0	12 ± 2.9	10 ± 1.7
100.0	10 ± 2.3	14 ± 2.0	9 ± 1.2	8 ± 0.9	11 ± 3.4
333.0	15 ± 3.8	8 ± 1.2	9 ± 2.3	9 ± 1.0	11 ± 2.5
1000.0	9 ± 1.9 ^P	7 ± 1.5 ^P	13 ± 0.9 ^P	10 ± 1.7 ^P	10 ± 1.8 ^P
3333.0	7 ± 1.9 ^P	7 ± 1.2 ^P	9 ± 1.2 ^P	8 ± 0.9 ^P	8 ± 1.0 ^P
10000.0	10 ± 2.6 ^P	7 ± 1.8 ^P	6 ± 0.6 ^P	6 ± 0.6 ^P	7 ± 1.2 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					227 ± 16.4
Positive Control ⁴	857 ± 37.8	871 ± 5.6			
Positive Control ⁵			156 ± 10.8		
Positive Control ⁶				168 ± 7.8	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 0.7
100.0	8 ± 0.7
333.0	8 ± 2.6
1000.0	13 ± 2.4 ^p
3333.0	12 ± 0.9 ^p
10000.0	10 ± 0.9 ^p
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	291 ± 22.3
Positive Control ⁶	

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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	162 ± 7.4	150 ± 5.2	183 ± 11.7	179 ± 11.5	158 ± 2.6
100.0	154 ± 8.3	160 ± 3.8	195 ± 6.9	192 ± 9.2	159 ± 4.1
333.0	156 ± 10.7	153 ± 12.7	191 ± 16.8	189 ± 16.6	156 ± 9.9
1000.0	169 ± 10.1 ^P	159 ± 3.4 ^P	198 ± 2.3 ^P	193 ± 3.5 ^P	172 ± 5.6 ^P
3333.0	178 ± 3.9 ^P	152 ± 7.3 ^P	189 ± 7.0 ^P	175 ± 5.2 ^P	181 ± 2.2 ^P
10000.0	141 ± 8.1 ^P	139 ± 7.9 ^P	131 ± 5.8 ^P	167 ± 5.8 ^P	136 ± 4.6 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					978 ± 41.2
Positive Control ³			768 ± 27.2		
Positive Control ⁵				434 ± 24.8	
Positive Control ⁷	467 ± 34.3	465 ± 31.4			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	189 ± 7.3
100.0	179 ± 7.0
333.0	163 ± 13.3
1000.0	190 ± 3.8 ^P
3333.0	196 ± 11.0 ^P
10000.0	185 ± 7.0 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	561 ± 123.0
Positive Control 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	15 ± 1.5	27 ± 2.1	28 ± 0.3	18 ± 3.5	28 ± 2.6
100.0	15 ± 2.3	24 ± 3.5	22 ± 4.2	17 ± 2.3	25 ± 1.0
333.0	15 ± 1.9	25 ± 2.0	29 ± 1.2	17 ± 2.1	25 ± 1.0
1000.0	15 ± 1.2 ^p	19 ± 3.0 ^p	24 ± 5.0 ^p	16 ± 1.2 ^p	30 ± 3.2 ^p
3333.0	14 ± 0.9 ^p	23 ± 1.5 ^p	31 ± 2.9 ^p	15 ± 0.9 ^p	27 ± 2.7 ^p
10000.0	12 ± 1.0 ^p	16 ± 3.3 ^p	22 ± 5.6 ^p	15 ± 2.0 ^p	23 ± 1.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1153 ± 14.5
Positive Control ³			835 ± 22.3		
Positive Control ⁸	386 ± 38.6	992 ± 41.7			
Positive Control ⁵				390 ± 9.8	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	19 ± 2.3
100.0	17 ± 1.5
333.0	16 ± 2.1
1000.0	14 ± 1.8 ^p
3333.0	12 ± 1.0 ^p
10000.0	16 ± 0.3 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	450 ± 19.5
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

p: Precipitate

x: Slight Toxicity and Precipitate

**** END OF REPORT ****