

Experiment Number: 910246

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: gamma-Butyrolactone

CAS Number: 96-48-0

Date Report Requested: 09/17/2018

Time Report Requested: 01:57:46

NTP Study Number:

910246

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	120 ± 5.1	105 ± 7.7	116 ± 10.2	118 ± 4.7	143 ± 8.5
100.0	125 ± 8.1	109 ± 7.5	129 ± 13.2	134 ± 8.2	142 ± 4.5
333.0	125 ± 6.9	115 ± 6.4	130 ± 16.6	136 ± 8.1	143 ± 1.9
1000.0	112 ± 9.0	125 ± 6.4	114 ± 13.3	140 ± 9.3	147 ± 0.9
3333.0	123 ± 11.6	116 ± 4.2	122 ± 13.8	111 ± 3.5	136 ± 5.5
10000.0	109 ± 2.3	108 ± 5.5	118 ± 11.4	121 ± 10.9	137 ± 6.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	277 ± 18.4	419 ± 12.6			
Positive Control ³			688 ± 39.0	495 ± 23.2	1100 ± 18.7

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	121 ± 4.5
100.0	115 ± 13.6
333.0	122 ± 5.0
1000.0	117 ± 2.5
3333.0	119 ± 8.4
10000.0	120 ± 4.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	778 ± 10.2

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	28 ± 0.7	24 ± 4.7	19 ± 0.6	11 ± 2.7	12 ± 2.3
100.0	17 ± 1.9	28 ± 4.2	16 ± 1.5	15 ± 3.8	11 ± 2.9
333.0	24 ± 3.9	23 ± 3.7	15 ± 1.2	20 ± 2.0	8 ± 2.3
1000.0	23 ± 3.2	27 ± 1.5	12 ± 2.6	18 ± 6.1	8 ± 1.0
3333.0	24 ± 2.9	24 ± 2.0	9 ± 2.3	20 ± 3.2	12 ± 1.7
10000.0	28 ± 2.2	29 ± 6.7	16 ± 2.0	23 ± 2.9	10 ± 5.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	315 ± 14.6	379 ± 22.3			
Positive Control ⁴			260 ± 7.7	120 ± 13.2	357 ± 17.6

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.9
100.0	11 ± 5.0
333.0	9 ± 5.2
1000.0	6 ± 1.3
3333.0	11 ± 3.5
10000.0	17 ± 0.7
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	356 ± 53.3

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.2	8 ± 1.5	16 ± 2.6	16 ± 2.5	7 ± 2.3
100.0	3 ± 0.6	8 ± 3.0	18 ± 1.8	13 ± 3.4	3 ± 1.2
333.0	6 ± 1.5	7 ± 0.9	11 ± 2.5	11 ± 2.1	5 ± 0.7
1000.0	5 ± 1.5	10 ± 1.7	9 ± 3.0	13 ± 0.6	8 ± 3.2
3333.0	4 ± 0.7	8 ± 3.3	14 ± 1.5	13 ± 2.6	6 ± 1.3
10000.0	4 ± 1.2	12 ± 2.7	12 ± 2.0	16 ± 1.2	7 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			217 ± 5.3	204 ± 14.8	446 ± 16.1
Positive Control ⁵	110 ± 6.9	277 ± 25.1			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.3
100.0	9 ± 2.4
333.0	6 ± 1.0
1000.0	11 ± 4.2
3333.0	12 ± 2.6
10000.0	12 ± 2.4
Trial Summary	Negative
Positive Control ⁴	454 ± 17.6
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 0.9	15 ± 1.5	24 ± 2.2	32 ± 4.1	29 ± 0.9
100.0	21 ± 3.3	22 ± 3.3	25 ± 3.0	36 ± 4.3	33 ± 3.9
333.0	17 ± 0.3	17 ± 4.7	29 ± 6.8	33 ± 3.2	31 ± 1.2
1000.0	17 ± 1.8	17 ± 1.5	31 ± 5.4	33 ± 4.0	29 ± 6.2
3333.0	16 ± 0.9	22 ± 4.4	29 ± 0.9	34 ± 2.6	35 ± 4.0
10000.0	21 ± 3.8	15 ± 3.4	29 ± 1.5	37 ± 4.2	28 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			462 ± 37.8	401 ± 33.1	926 ± 12.5
Positive Control ⁶	654 ± 54.9	730 ± 18.6			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	27 ± 3.4
100.0	26 ± 3.6
333.0	27 ± 0.9
1000.0	27 ± 3.3
3333.0	32 ± 2.3
10000.0	28 ± 0.3
Trial Summary	Negative
Positive Control ³	477 ± 29.8
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: Water

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

**** END OF REPORT ****