

Experiment Number: **620071**

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

G06: Ames Summary Data

Test Compound: **beta-Butyrolactone**

CAS Number: **3068-88-0**

Date Report Requested: **09/15/2018**

Time Report Requested: **08:03:10**

NTP Study Number:

620071

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	104 ± 12.2	99 ± 8.3	115 ± 5.4	139 ± 9.6	113 ± 3.6
33.0	294 ± 6.7	395 ± 3.9			
100.0	726 ± 15.5	946 ± 23.0	456 ± 23.2	482 ± 8.9	182 ± 3.5
333.0	1345 ± 30.3	2373 ± 29.7	910 ± 3.5	1212 ± 4.8	342 ± 8.8
1000.0	2244 ± 19.7	4067 ± 198.1	1860 ± 19.4	2959 ± 25.8	1071 ± 45.0
3333.0	2763 ± 125.6	4705 ± 18.7	2395 ± 144.4	4186 ± 63.3	2222 ± 75.7
10000.0			2350 ± 62.0	3817 ± 18.1	2625 ± 59.5
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²	380 ± 38.6	516 ± 17.2			
Positive Control ³					506 ± 16.9
Positive Control ⁴			1095 ± 30.6	1764 ± 63.6	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	127 ± 10.2
33.0	
100.0	241 ± 5.6
333.0	469 ± 16.2
1000.0	2047 ± 34.0
3333.0	3871 ± 168.3
10000.0	4119 ± 193.7
Trial Summary	Positive
Positive Control ²	
Positive Control ³	682 ± 24.9
Positive Control ⁴	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	16 ± 2.5	20 ± 1.8	26 ± 0.0	30 ± 4.4	28 ± 2.5
33.0	17 ± 3.5	17 ± 2.1			
100.0	27 ± 0.9	31 ± 3.5	36 ± 4.2	40 ± 3.7	33 ± 1.3
333.0	55 ± 3.5	54 ± 5.0	55 ± 2.8	78 ± 2.9	34 ± 3.9
1000.0	166 ± 8.0	203 ± 8.7	123 ± 1.7	179 ± 3.2	76 ± 5.0
3333.0	291 ± 2.5	370 ± 14.7	289 ± 1.0	356 ± 8.4	226 ± 2.8
10000.0			218 ± 2.6	350 ± 13.2	299 ± 9.3
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ³			269 ± 17.5	369 ± 11.3	356 ± 10.1
Positive Control ⁵	313 ± 16.8	356 ± 6.6			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	32 ± 4.2
33.0	
100.0	34 ± 2.9
333.0	39 ± 3.8
1000.0	69 ± 23.2
3333.0	257 ± 1.3
10000.0	384 ± 8.4
Trial Summary	Positive
Positive Control ³	374 ± 17.5
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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****