

Experiment Number: **146689**

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

G06: Ames Summary Data

Test Compound: **Butyric acid**

CAS Number: **107-92-6**

Date Report Requested: **09/12/2018**

Time Report Requested: **14:10:35**

NTP Study Number:

146689

Study Result:

Negative

Experiment Number: 146689

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Mutagenicity

G06: Ames Summary Data

Test Compound: Butyric acid

CAS Number: 107-92-6

Date Report Requested: 09/12/2018

Time Report Requested: 14:10:35

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	145 ± 2.0	158 ± 5.8	136 ± 3.7	140 ± 5.0	159 ± 6.1
100.0	185 ± 15.2		140 ± 2.3	154 ± 11.1	173 ± 4.3
333.0	200 ± 9.5		141 ± 7.8	136 ± 3.5	165 ± 14.8
1000.0	199 ± 9.8	156 ± 3.8	119 ± 10.5	129 ± 11.0	162 ± 9.5
3333.0	213 ± 15.2	167 ± 13.9	125 ± 2.7	165 ± 2.5	193 ± 2.5
5000.0		179 ± 2.5			
6667.0		56 ± 18.5 ^s			
7500.0		17 ± 6.7 ^s			
10000.0	Toxic		0 ± 0.3 ^s	125 ± 10.1 ^s	64 ± 29.7 ^s
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	325 ± 5.4	342 ± 2.3	281 ± 13.0		
Positive Control ⁴				964 ± 31.2	
Positive Control ⁵					
Positive Control ⁶					899 ± 39.7

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	176 ± 8.7	198 ± 5.7	153 ± 1.2
100.0		199 ± 5.8	157 ± 7.1
333.0		182 ± 7.3	170 ± 3.0
1000.0	176 ± 4.8	176 ± 5.5	179 ± 11.0
3333.0	182 ± 6.2	172 ± 2.7	156 ± 7.4
5000.0	181 ± 6.2 ^p		
6667.0	162 ± 29.8 ^p		
7500.0	114 ± 28.8 ^x		
10000.0		21 ± 20.8 ^s	68 ± 10.5 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²		540 ± 13.3	
Positive Control ³			
Positive Control ⁴			
Positive Control ⁵			695 ± 8.2
Positive Control ⁶	922 ± 61.0		

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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	8 ± 0.9	8 ± 2.5	13 ± 0.7	17 ± 1.3	11 ± 3.5
100.0	12 ± 1.2	7 ± 1.5	10 ± 1.7	19 ± 0.7	10 ± 1.9
333.0	10 ± 1.5	7 ± 1.3	8 ± 1.9	17 ± 3.5	9 ± 2.5
1000.0	13 ± 3.1	11 ± 1.8	12 ± 1.0	15 ± 3.6	8 ± 1.3
3333.0	10 ± 0.6	9 ± 2.2	11 ± 1.5	16 ± 3.1	9 ± 1.2
10000.0	8 ± 1.5	6 ± 0.6	7 ± 1.5 ^s	11 ± 2.0 ^x	10 ± 1.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					50 ± 2.8
Positive Control ³	158 ± 22.8	163 ± 10.1			
Positive Control ⁵					
Positive Control ⁶			125 ± 17.3	136 ± 9.5	

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Date Report Requested: 09/12/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	15 ± 1.3
100.0	18 ± 2.9
333.0	16 ± 2.3
1000.0	19 ± 1.2
3333.0	16 ± 3.5
10000.0	3 ± 1.3 ^x
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	51 ± 6.3
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	164 ± 3.8	147 ± 9.2	169 ± 11.3	231 ± 7.3	170 ± 1.9
100.0	163 ± 5.7	157 ± 12.2	172 ± 4.1	255 ± 9.2	157 ± 5.0
333.0	185 ± 5.0	149 ± 1.2	168 ± 7.9	231 ± 14.3	170 ± 5.5
1000.0	164 ± 1.9	150 ± 4.7	171 ± 1.7	216 ± 4.3	179 ± 6.0
3333.0	188 ± 10.7	142 ± 3.2	168 ± 4.7	254 ± 17.5	172 ± 7.0
10000.0	20 ± 19.7 ^s	135 ± 4.0	9 ± 6.6 ^s	93 ± 34.1 ^x	168 ± 4.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					1588 ± 52.6
Positive Control ⁶			2087 ± 228.6	1240 ± 5.0	
Positive Control ⁷	816 ± 15.6	809 ± 41.3			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	239 ± 12.1
100.0	232 ± 10.1
333.0	229 ± 6.2
1000.0	218 ± 2.9
3333.0	217 ± 5.2
10000.0	36 ± 31.8 ^x
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	1301 ± 91.0
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	21 ± 1.8	46 ± 2.6	44 ± 2.1	26 ± 2.3	38 ± 1.5
100.0	13 ± 1.3	38 ± 3.2	41 ± 2.4	22 ± 1.8	36 ± 0.3
333.0	15 ± 0.9	43 ± 2.2	42 ± 4.0	23 ± 4.7	39 ± 5.2
1000.0	21 ± 4.2	39 ± 2.7	41 ± 2.1	21 ± 2.3	27 ± 2.5
3333.0	20 ± 1.8	40 ± 5.5	32 ± 3.5	20 ± 1.9	24 ± 4.4
10000.0	Toxic	21 ± 2.0	20 ± 0.7 ^s	12 ± 4.1 ^s	14 ± 4.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			280 ± 21.7		561 ± 29.4
Positive Control ⁸	355 ± 6.9	349 ± 11.4			
Positive Control ⁵				221 ± 30.1	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	19 ± 0.9
100.0	13 ± 2.0
333.0	16 ± 2.5
1000.0	18 ± 2.3
3333.0	20 ± 4.1
10000.0	11 ± 7.2 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ⁸	
Positive Control ⁵	547 ± 19.5

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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: Water

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 24.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

x: Slight Toxicity and Precipitate

**** END OF REPORT ****