

Experiment Number: 187346

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

G06: Ames Summary Data

Test Compound: **Ethyl 3-hydroxybutyrate**

CAS Number: 5405-41-4

Date Report Requested: **09/14/2018**

Time Report Requested: **00:50:27**

NTP Study Number:

187346

Study Result:

Negative

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Date Report Requested: 09/14/2018

Time Report Requested: 00:50:27

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	148 ± 2.9	125 ± 1.8	122 ± 4.7	168 ± 2.0	123 ± 4.1
100.0	146 ± 3.8	132 ± 3.5	142 ± 11.5	172 ± 2.6	116 ± 3.3
333.0	142 ± 8.6	112 ± 7.0	144 ± 11.5	172 ± 4.7	136 ± 0.9
1000.0	137 ± 0.7	113 ± 1.0	127 ± 2.6	143 ± 6.0	133 ± 3.3
3333.0	126 ± 11.7	112 ± 8.1	139 ± 12.1	165 ± 9.6	119 ± 3.0
10000.0	128 ± 16.0	109 ± 2.0	134 ± 6.2	172 ± 3.7	118 ± 5.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					505 ± 18.0
Positive Control ³			362 ± 22.5		
Positive Control ⁴				568 ± 33.7	
Positive Control ⁵	1182 ± 23.4	363 ± 26.0			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	162 ± 3.5
100.0	168 ± 7.3
333.0	169 ± 4.8
1000.0	149 ± 10.3
3333.0	144 ± 11.5
10000.0	136 ± 1.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	627 ± 26.3
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	6 ± 1.8	9 ± 0.6	11 ± 2.3	8 ± 0.7	11 ± 1.5
0.0			0 ± 0.0	0 ± 0.0	0 ± 0.0
		100.0	6 ± 1.2	10 ± 0.9	14 ± 1.8
11 ± 1.2	10 ± 0.9	333.0	3 ± 0.9	9 ± 1.3	7 ± 0.0
11 ± 2.0	9 ± 1.7	1000.0	3 ± 0.9	7 ± 1.3	11 ± 3.0
8 ± 2.0	7 ± 0.3	3333.0	5 ± 0.3	6 ± 0.6	9 ± 0.3
8 ± 1.5	6 ± 2.0	10000.0	8 ± 0.9	7 ± 1.7	9 ± 1.2
10 ± 0.0	8 ± 3.3				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					74 ± 0.9
Positive Control ⁴			75 ± 3.2		
Positive Control ⁵	244 ± 21.4	150 ± 8.0			
Positive Control ⁶				79 ± 5.3	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹ 0.0	11 ± 2.2
	10 ± 1.2
11 ± 1.2	12 ± 0.7
11 ± 2.0	8 ± 2.8
8 ± 2.0	7 ± 1.3
8 ± 1.5	10 ± 1.5
10 ± 0.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	105 ± 10.3
Positive Control ⁵	
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	189 ± 7.2	194 ± 3.5	227 ± 5.9	206 ± 17.3	196 ± 6.4
100.0	171 ± 2.7	203 ± 12.9	213 ± 9.7	226 ± 7.9	186 ± 8.4
333.0	177 ± 4.3	209 ± 9.5	215 ± 7.5	224 ± 6.5	180 ± 12.9
1000.0	147 ± 6.6	216 ± 5.2	201 ± 8.1	204 ± 9.4	172 ± 3.8
3333.0	171 ± 8.4	217 ± 5.0	224 ± 8.7	193 ± 9.6	173 ± 1.5
10000.0	152 ± 10.0	177 ± 40.4	201 ± 5.3	220 ± 5.2	176 ± 20.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷		359 ± 6.2	332 ± 24.3	420 ± 14.5	353 ± 26.1

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	157 ± 7.1
100.0	138 ± 6.4
333.0	123 ± 5.0
1000.0	177 ± 13.9
3333.0	177 ± 10.2
10000.0	159 ± 16.2
Trial Summary	Negative
Positive Control ⁷	Positive Control ² Positive Control ³ Positive Control ⁴ Positive Control ⁸

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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	26 ± 3.8	21 ± 2.9	23 ± 2.6	28 ± 3.8	24 ± 2.3
100.0	25 ± 2.9	20 ± 2.9	24 ± 1.9	27 ± 3.7	24 ± 1.9
333.0	29 ± 3.8	23 ± 1.2	21 ± 4.0	30 ± 1.2	23 ± 2.5
1000.0	31 ± 0.6	21 ± 2.3	30 ± 1.5	18 ± 0.9	28 ± 2.7
3333.0	31 ± 5.0	17 ± 1.5	20 ± 2.7	15 ± 0.9	21 ± 3.3
10000.0	26 ± 3.4	21 ± 2.8	21 ± 2.1	30 ± 2.1	22 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					426 ± 21.5
Positive Control ³			220 ± 6.9	186 ± 2.0	
Positive Control ⁹	923 ± 35.7	780 ± 70.8			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	22 ± 3.1
100.0	28 ± 5.6
333.0	24 ± 4.2
1000.0	20 ± 3.3
3333.0	28 ± 3.8
10000.0	29 ± 1.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	458 ± 12.3
Positive Control ⁹	

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 5.0 ug/Plate Sodium Azide

6: 5.0 ug/Plate 2-Aminoanthracene

7: 0.0 ug/Plate 9-Aminoacridine

8: 50.0 ug/Plate 9-Aminoacridine

9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****