

Experiment Number: 182914

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: n-Butyl acetate

CAS Number: 123-86-4

Date Report Requested: 09/13/2018

Time Report Requested: 19:17:52

NTP Study Number:

182914

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	161 ± 2.4	138 ± 4.4	120 ± 4.3	144 ± 17.0	158 ± 13.4
33.0		150 ± 10.2	115 ± 7.5		
100.0	150 ± 10.1	135 ± 7.0	126 ± 9.1	135 ± 6.3	156 ± 5.5
333.0	156 ± 4.4	145 ± 6.8	118 ± 6.2	159 ± 8.4	140 ± 6.0
1000.0	136 ± 13.6	144 ± 7.0	101 ± 2.3	123 ± 6.9	149 ± 1.3
1666.0		139 ± 7.8			
3333.0	0 ± 0.0 ^s		76 ± 4.2 ^s	131 ± 8.8	139 ± 8.3
10000.0	0 ± 0.0 ^s			126 ± 5.8	104 ± 8.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				460 ± 5.0	
Positive Control ⁴	425 ± 16.3	412 ± 20.5	357 ± 28.7		
Positive Control ⁵					542 ± 31.3

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	116 ± 3.7	157 ± 8.0
33.0		
100.0	142 ± 15.4	147 ± 7.9
333.0	124 ± 5.2	142 ± 11.1
1000.0	118 ± 5.6	169 ± 4.0
1666.0		
3333.0	125 ± 7.1	154 ± 8.7
10000.0	133 ± 4.4	64 ± 35.0 ^s
Trial Summary	Negative	Negative
Positive Control ²	778 ± 32.0	
Positive Control ³		756 ± 60.6
Positive Control ⁴		
Positive Control ⁵		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	30 ± 5.5	37 ± 2.4	20 ± 1.9	14 ± 1.8	14 ± 0.6
33.0		30 ± 3.2	24 ± 2.1		
100.0	26 ± 1.0	36 ± 2.1	17 ± 1.5	9 ± 2.1	13 ± 0.9
333.0	27 ± 2.4	31 ± 3.8	19 ± 1.2	12 ± 1.9	16 ± 1.5
1000.0	24 ± 0.6	23 ± 3.0	20 ± 3.8	11 ± 1.3	13 ± 0.9
1666.0		36 ± 2.3			
3333.0	4 ± 0.3 ^s		5 ± 1.3 ^s	9 ± 0.3	14 ± 1.5
10000.0	3 ± 2.1 ^s			7 ± 1.9	12 ± 2.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					
Positive Control ⁴	515 ± 8.7	355 ± 9.2	285 ± 10.2		
Positive Control ⁵				154 ± 14.0	
Positive Control ⁶					175 ± 10.3

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	8 ± 2.0	9 ± 0.3
33.0		
100.0	15 ± 1.5	9 ± 0.3
333.0	10 ± 1.5	11 ± 0.6
1000.0	14 ± 1.5	8 ± 0.3
1666.0		
3333.0	10 ± 2.4	12 ± 2.0
10000.0	6 ± 0.7	10 ± 1.2
Trial Summary	Negative	Negative
Positive Control ³	236 ± 23.4	
Positive Control ⁴		
Positive Control ⁵		505 ± 11.0
Positive Control ⁶		

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	16 ± 2.6	14 ± 5.0	18 ± 3.5	14 ± 2.6
33.0		15 ± 1.7		
100.0	13 ± 1.5	11 ± 3.8	14 ± 1.2	10 ± 1.0
333.0	11 ± 1.7	12 ± 2.0	15 ± 3.0	13 ± 1.2
1000.0	11 ± 2.4	7 ± 1.2	15 ± 2.6	12 ± 1.7
3333.0	8 ± 1.2 ^s	5 ± 2.9 ^s	8 ± 0.6	12 ± 1.8
10000.0	7 ± 0.6 ^s		8 ± 1.2	12 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ³				56 ± 5.5
Positive Control ⁵			49 ± 0.7	
Positive Control ⁷	691 ± 38.8	274 ± 23.4		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	190 ± 7.0	143 ± 6.4	140 ± 18.6	184 ± 12.3	194 ± 7.3
33.0		162 ± 8.8	128 ± 30.9		
100.0	196 ± 5.0	158 ± 4.2	150 ± 6.7	204 ± 5.0	199 ± 9.6
333.0	175 ± 13.3	165 ± 8.9	157 ± 6.9	198 ± 6.1	202 ± 9.2
1000.0	190 ± 9.5	167 ± 7.9	149 ± 0.9	195 ± 3.8	215 ± 5.5
1666.0		152 ± 5.5			
3333.0	74 ± 22.3 ^s		84 ± 3.2 ^s	185 ± 3.5	200 ± 13.9
10000.0	67 ± 33.5 ^s			173 ± 10.2	159 ± 22.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				389 ± 15.7	
Positive Control ⁵					431 ± 29.9
Positive Control ⁷	754 ± 19.8	407 ± 16.6	565 ± 86.0		

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	187 ± 7.9	196 ± 4.7
33.0		
100.0	205 ± 2.9	195 ± 10.3
333.0	204 ± 4.7	188 ± 10.9
1000.0	199 ± 1.8	159 ± 23.9
1666.0		
3333.0	150 ± 7.0	161 ± 10.8
10000.0	148 ± 3.2 ^s	155 ± 6.6
Trial Summary	Negative	Negative
Positive Control ²	623 ± 31.5	
Positive Control ³		449 ± 32.1
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 30% Rat S9
Vehicle Control ¹	21 ± 2.5	21 ± 4.7	38 ± 3.6	52 ± 0.9	40 ± 1.2
33.0	18 ± 1.5	23 ± 2.8		39 ± 0.9	
100.0	16 ± 1.8	26 ± 2.4	42 ± 0.9	42 ± 5.2	43 ± 4.0
333.0	17 ± 1.2	21 ± 2.6	38 ± 3.2	34 ± 2.4	38 ± 2.9
1000.0	21 ± 2.6	22 ± 2.4	39 ± 0.3	32 ± 0.3	43 ± 3.7
1666.0		24 ± 0.3			
3333.0	11 ± 1.2 ^s		39 ± 3.0	35 ± 2.5	40 ± 4.4
10000.0			33 ± 1.9		35 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			301 ± 45.2	157 ± 9.2	134 ± 5.9
Positive Control ⁸	445 ± 18.3	475 ± 46.1			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	43 ± 1.5	30 ± 1.2	55 ± 0.9
33.0		30 ± 1.5	
100.0	44 ± 5.9	30 ± 1.9	24 ± 2.2
333.0	40 ± 1.2	24 ± 1.5	30 ± 5.3
1000.0	40 ± 1.5	24 ± 1.2	26 ± 3.2
1666.0			
3333.0	31 ± 0.3	25 ± 4.1	19 ± 3.5
10000.0	37 ± 3.1		20 ± 3.2
Trial Summary	Negative	Negative	Negative
Positive Control ²	732 ± 34.9		
Positive Control ³		513 ± 27.3	392 ± 23.9
Positive Control ⁸			

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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 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **