

Experiment Number: 398442

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

G06: Ames Summary Data

Test Compound: **n-Butyl acrylate**

CAS Number: 141-32-2

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

Time Report Requested: **16:26:20**

NTP Study Number:

398442

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	122 ± 1.2	93 ± 5.1	124 ± 9.9	147 ± 3.2	123 ± 1.9
33.0			133 ± 10.2		118 ± 6.5
100.0	117 ± 4.4	99 ± 0.3	128 ± 6.2	149 ± 5.6	131 ± 15.6
333.0	106 ± 1.2	92 ± 2.8	142 ± 3.8	158 ± 5.9	105 ± 3.8
1000.0	103 ± 3.7	97 ± 4.4	100 ± 7.9	138 ± 7.8	121 ± 15.0
3333.0	117 ± 9.5	96 ± 1.5	102 ± 7.8	118 ± 7.8	88 ± 5.0
10000.0	101 ± 3.8	94 ± 2.8		102 ± 4.8	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1774 ± 148.8	1349 ± 53.1	1982 ± 24.1
Positive Control ³	652 ± 14.7	838 ± 25.5			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	150 ± 10.0
33.0	
100.0	142 ± 6.9
333.0	147 ± 16.2
1000.0	155 ± 8.2
3333.0	157 ± 6.8
10000.0	104 ± 9.4
Trial Summary	Negative
Positive Control ²	1718 ± 24.3
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	16 ± 3.8	10 ± 2.0	12 ± 2.2	16 ± 1.5	13 ± 1.0
3.3		9 ± 2.4	11 ± 2.3		
10.0		6 ± 0.9	12 ± 2.0		
33.0		8 ± 2.0	12 ± 1.2	22 ± 3.2	
100.0	24 ± 2.7	9 ± 1.8	6 ± 0.6	21 ± 1.9	8 ± 0.3
333.0	Toxic	7 ± 0.7	Toxic	20 ± 3.4	10 ± 1.9
1000.0	Toxic			21 ± 1.5	5 ± 1.7
3333.0	Toxic			17 ± 0.7	4 ± 1.5
10000.0	Toxic				4 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				401 ± 18.8	394 ± 129.9
Positive Control ³	1519 ± 80.9	650 ± 68.5	922 ± 39.0		

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 1.2	10 ± 1.8	19 ± 1.2
3.3			
10.0			
33.0	24 ± 2.1		12 ± 3.3
100.0	21 ± 0.3	11 ± 1.2	17 ± 1.3
333.0	27 ± 3.4	9 ± 0.6	13 ± 1.2
1000.0	27 ± 3.5	6 ± 1.0	7 ± 1.7
3333.0	24 ± 2.3	5 ± 0.0	5 ± 0.3
10000.0		4 ± 0.3	0 ± 0.3
Trial Summary	Equivocal	Negative	Negative
Positive Control ⁴	454 ± 49.5	253 ± 28.8	269 ± 21.0
Positive Control ³			

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	5 ± 1.0	5 ± 1.8	6 ± 0.6	6 ± 1.5	12 ± 1.7
10.0		5 ± 0.3	5 ± 1.8		
33.0		7 ± 1.7	8 ± 1.5	7 ± 1.5	
100.0	3 ± 1.2	5 ± 1.0	5 ± 0.6	6 ± 0.6	11 ± 2.6
333.0	2 ± 1.0	2 ± 0.3	9 ± 2.3	5 ± 0.9	12 ± 0.3
1000.0	Toxic	2 ± 1.9	0 ± 0.0	4 ± 2.0	9 ± 2.1
3333.0	Toxic			5 ± 1.2	12 ± 1.5
10000.0	Toxic				9 ± 1.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				280 ± 30.6	291 ± 11.1
Positive Control ³	120 ± 14.7				
Positive Control ⁵		137 ± 12.8	970 ± 21.2		

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.5	7 ± 1.2
10.0		
33.0	14 ± 1.3	
100.0	10 ± 1.7	9 ± 2.1
333.0	7 ± 1.5	12 ± 3.6
1000.0	9 ± 2.0	7 ± 1.0
3333.0	8 ± 0.3	7 ± 0.9
10000.0		5 ± 1.5
Trial Summary	Negative	Negative
Positive Control ⁴	209 ± 29.2	267 ± 4.9
Positive Control ³		
Positive Control ⁵		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	30 ± 2.7	14 ± 2.0	20 ± 1.7	43 ± 2.1	21 ± 2.3
3.3		15 ± 2.4	18 ± 2.3		
10.0		13 ± 1.9	15 ± 2.2		
33.0		15 ± 0.9	22 ± 2.6	51 ± 3.1	
100.0	36 ± 2.7	18 ± 3.0	15 ± 2.7	37 ± 2.1	22 ± 1.2
333.0	Toxic	14 ± 5.2	Toxic	42 ± 1.7	23 ± 3.8
1000.0	Toxic			40 ± 6.1	18 ± 1.9
3333.0	Toxic			27 ± 1.5	16 ± 1.2
10000.0	Toxic				15 ± 2.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				1838 ± 69.4	587 ± 47.6
Positive Control ⁶	291 ± 34.7	200 ± 13.9	563 ± 65.6		

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	46 ± 0.3	17 ± 3.8
3.3		
10.0		
33.0	53 ± 2.9	
100.0	43 ± 1.5	21 ± 3.3
333.0	41 ± 1.9	21 ± 0.9
1000.0	39 ± 2.3	16 ± 0.6
3333.0	35 ± 4.8	16 ± 2.7
10000.0		10 ± 2.3
Trial Summary	Negative	Negative
Positive Control ²	2709 ± 74.0	1095 ± 55.7
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: Dimethyl Sulfoxide

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****