

Experiment Number: **809633**

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

G06: Ames Summary Data

Test Compound: **2-Nitro-1-butanol**

CAS Number: **609-31-4**

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

Time Report Requested: **09:49:14**

NTP Study Number:

809633

Study Result:

Negative

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Test Compound: 2-Nitro-1-butanol

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Date Report Requested: 09/15/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	126 ± 2.1	133 ± 20.6	153 ± 5.3	118 ± 4.3	135 ± 2.6
1.0		147 ± 2.9			
3.0		139 ± 14.4			
10.0	124 ± 7.0	142 ± 5.5			
33.0	138 ± 10.9	146 ± 8.4	150 ± 0.9	126 ± 6.7	
100.0	127 ± 18.6	162 ± 7.6	125 ± 12.2	150 ± 1.2	125 ± 14.7
333.0	103 ± 15.0		141 ± 11.0	118 ± 19.7	131 ± 2.0
666.0	Toxic				
1000.0			126 ± 1.8	98 ± 9.4	142 ± 3.5
1666.0				107 ± 5.5	
3333.0			Toxic		Toxic
6666.0					Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					808 ± 12.1
Positive Control ³			508 ± 28.2		
Positive Control ⁴	352 ± 7.2	389 ± 3.8			
Positive Control ⁵				460 ± 41.0	

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	148 ± 9.8	111 ± 0.6
1.0		
3.0		
10.0		
33.0	170 ± 7.3	
100.0	175 ± 12.4	108 ± 6.0
333.0	175 ± 10.7	133 ± 8.8
666.0		
1000.0	170 ± 8.0	132 ± 9.6
1666.0	168 ± 5.2	
3333.0		134 ± 5.0
6666.0		101 ± 15.0
Trial Summary	Negative	Negative
Positive Control ²	726 ± 13.3	
Positive Control ³		592 ± 45.5
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	23 ± 2.7	22 ± 2.0	11 ± 0.9	30 ± 2.2	8 ± 0.7
1.0		22 ± 2.3			
3.0	19 ± 0.7	20 ± 2.6			
10.0	20 ± 2.9	11 ± 2.8			
33.0	15 ± 1.3	10 ± 1.3	9 ± 1.0	23 ± 2.3	
100.0	11 ± 4.7	5 ± 1.9	6 ± 0.9	22 ± 4.3	12 ± 2.6
333.0	Toxic		8 ± 1.8	18 ± 0.9	8 ± 4.1
1000.0			7 ± 2.0	19 ± 1.5	10 ± 1.2
1666.0				20 ± 2.6	
3333.0			Toxic		Toxic
6666.0					Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴	349 ± 16.7	256 ± 16.1			
Positive Control ³					136 ± 5.5
Positive Control ⁵			95 ± 2.8		
Positive Control ⁶				157 ± 10.3	

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	17 ± 2.8	9 ± 0.6
1.0		
3.0		
10.0		
33.0	17 ± 2.3	
100.0	18 ± 2.0	9 ± 1.5
333.0	15 ± 0.7	16 ± 4.6
1000.0	16 ± 3.6	14 ± 0.3
1666.0	18 ± 2.1	
3333.0		18 ± 0.9
6666.0		12 ± 5.2
Trial Summary	Negative	Negative
Positive Control ⁴		
Positive Control ³	106 ± 12.7	
Positive Control ⁵		254 ± 10.8
Positive Control ⁶		

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	10 ± 2.0	9 ± 1.5	10 ± 1.7
3.0	9 ± 0.3		
10.0	6 ± 0.3		
33.0	9 ± 1.9	12 ± 1.5	
100.0	7 ± 1.7	10 ± 1.2	11 ± 2.3
333.0	Toxic	9 ± 0.3	9 ± 1.0
1000.0		9 ± 2.1	8 ± 1.2
1666.0		9 ± 0.9	
3333.0			8 ± 2.7
6666.0			4 ± 3.0 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ³			52 ± 2.2
Positive Control ⁵		50 ± 6.1	
Positive Control ⁷	941 ± 214.8		

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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	177 ± 6.6	154 ± 7.2	176 ± 15.6	191 ± 7.7	168 ± 11.4
1.0		153 ± 5.8			
3.0	202 ± 6.8	156 ± 2.7			
10.0	205 ± 8.0	179 ± 7.4			
33.0	195 ± 3.5	183 ± 17.6	192 ± 4.3	214 ± 5.3	188 ± 10.1
100.0	153 ± 15.6	192 ± 5.0	206 ± 3.2	210 ± 2.1	189 ± 12.3
333.0	Toxic		200 ± 4.0	194 ± 5.9	162 ± 0.6
1000.0			195 ± 5.7	214 ± 8.1	177 ± 14.2
1666.0				210 ± 7.1	
3333.0			53 ± 53.3 ^s		182 ± 3.0
6666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					444 ± 11.0
Positive Control ³			350 ± 20.0		
Positive Control ⁵				301 ± 5.6	
Positive Control ⁷	442 ± 46.0	773 ± 30.8			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	202 ± 5.4
1.0	
3.0	
10.0	
33.0	
100.0	197 ± 10.9
333.0	204 ± 7.3
1000.0	199 ± 4.9
1666.0	
3333.0	187 ± 22.8
6666.0	52 ± 14.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	325 ± 39.8
Positive Control ⁵	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	16 ± 1.2	24 ± 2.0	19 ± 1.7	35 ± 5.6	25 ± 2.9
1.0		21 ± 3.1			
3.0		19 ± 1.8	16 ± 6.1		
10.0	14 ± 0.9	20 ± 3.5	22 ± 3.1		
33.0	12 ± 2.1	20 ± 1.8	21 ± 2.7	30 ± 6.3	31 ± 1.2
100.0	23 ± 4.9	24 ± 2.6	15 ± 2.4	32 ± 5.5	30 ± 1.8
166.0			17 ± 1.5		
333.0	Toxic			24 ± 2.3	25 ± 2.6
666.0	Toxic				
1000.0				22 ± 1.2	28 ± 2.3
1666.0					31 ± 4.2
3333.0				Toxic	
6666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				288 ± 12.3	98 ± 16.6
Positive Control ⁸	519 ± 52.6	401 ± 16.7	532 ± 17.0		

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	33 ± 2.0	43 ± 3.1	24 ± 3.6
1.0			
3.0			
10.0			
33.0		46 ± 4.0	
100.0	33 ± 1.9	42 ± 5.3	21 ± 2.7
166.0			
333.0	33 ± 4.4	49 ± 3.8	31 ± 4.7
666.0			
1000.0	27 ± 1.7	38 ± 2.9	21 ± 0.0
1666.0		24 ± 3.0	
3333.0	Toxic		25 ± 3.5
6666.0	Toxic		12 ± 6.0
Trial Summary	Negative	Negative	Negative
Positive Control ²	600 ± 34.3	556 ± 23.6	
Positive Control ³			224 ± 9.3
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 ****