

Experiment Number: 298754

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Nitroethanol

CAS Number: 625-48-9

Date Report Requested: 09/11/2018

Time Report Requested: 21:55:10

NTP Study Number:

298754

Study Result:

Equivocal

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Test Compound: 2-Nitroethanol

CAS Number: 625-48-9

Date Report Requested: 09/11/2018

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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	166 ± 3.7	102 ± 5.9	133 ± 3.3	129 ± 9.5	161 ± 7.0
1.0	165 ± 6.1				
3.0	142 ± 12.5	127 ± 18.8		123 ± 3.5	
6.0		114 ± 8.5			
10.0	163 ± 3.8	121 ± 3.9	145 ± 5.5	142 ± 1.3	160 ± 3.2
33.0	169 ± 4.2	132 ± 4.7	148 ± 7.2	127 ± 13.9	172 ± 3.0
66.0		63 ± 17.3 ^s			
100.0	120 ± 3.5 ^s		140 ± 9.3	143 ± 17.6	167 ± 5.1
333.0			147 ± 7.5	133 ± 16.0	169 ± 6.7
666.0			22 ± 10.0 ^s		10 ± 10.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					2465 ± 15.0
Positive Control ³			2462 ± 83.6	354 ± 14.1	
Positive Control ⁴	497 ± 9.2	322 ± 10.6			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	128 ± 9.7
1.0	
3.0	86 ± 7.0
6.0	
10.0	98 ± 5.6
33.0	103 ± 17.0
66.0	
100.0	105 ± 7.1
333.0	110 ± 11.0
666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	744 ± 34.5
Positive Control ⁴	

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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	25 ± 1.9	15 ± 1.2	10 ± 0.9	17 ± 3.3	9 ± 0.6
1.0	33 ± 1.2				
3.0	30 ± 3.8	13 ± 2.6		10 ± 0.9	
6.0		13 ± 1.2			
10.0	26 ± 3.2	10 ± 2.9	13 ± 1.5	12 ± 2.0	9 ± 0.9
33.0	19 ± 3.5	6 ± 0.7	10 ± 1.3	10 ± 3.8	10 ± 1.2
66.0		0 ± 0.0 ^s			
100.0	Toxic		8 ± 0.3	11 ± 2.6	11 ± 2.3
333.0			9 ± 2.2	13 ± 1.5	11 ± 1.8
666.0			11 ± 1.5 ^s		3 ± 2.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					698 ± 25.8
Positive Control ⁴	545 ± 26.4	211 ± 2.5			
Positive Control ⁵			549 ± 14.5	74 ± 0.6	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 0.9
1.0	
3.0	9 ± 1.2
6.0	
10.0	6 ± 1.9
33.0	10 ± 1.2
66.0	
100.0	8 ± 1.5
333.0	7 ± 5.0
666.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	341 ± 11.2

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.2	5 ± 1.5	5 ± 2.7
3.0	9 ± 1.5	6 ± 1.2	6 ± 1.5
6.0	7 ± 0.9		
10.0	6 ± 2.5	7 ± 1.2	6 ± 2.4
33.0	10 ± 2.3	10 ± 1.2	5 ± 1.2
66.0	2 ± 1.2		
100.0		9 ± 0.7	8 ± 1.7
333.0		10 ± 2.4	7 ± 1.2
Trial Summary	Negative	Negative	Negative
Positive Control ⁵		210 ± 7.7	453 ± 27.5
Positive Control ⁶	405 ± 48.2		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 5% Rat S9
Vehicle Control ¹	167 ± 4.0	124 ± 4.5	103 ± 2.4	132 ± 21.5	144 ± 7.1
1.0	162 ± 8.1				
3.0	175 ± 4.7	137 ± 7.0	106 ± 6.5	166 ± 15.9	127 ± 7.8
6.0		132 ± 8.2	115 ± 0.7	106 ± 52.9	
10.0	185 ± 6.4	122 ± 5.2	99 ± 6.1	162 ± 5.8	141 ± 2.8
33.0	250 ± 10.0	163 ± 18.5	116 ± 11.4	166 ± 9.1	134 ± 11.0
66.0		179 ± 16.5	87 ± 39.0	60 ± 32.5 ^s	
100.0	128 ± 17.4 ^s				158 ± 9.3
333.0					51 ± 50.7 ^s
666.0					
Trial Summary	Equivocal	Equivocal	Negative	Negative	Negative
Positive Control ²					
Positive Control ³					1305 ± 16.6
Positive Control ⁵					
Positive Control ⁷				378 ± 35.4	
Positive Control ⁶	1219 ± 121.3	935 ± 14.2	1614 ± 116.4		

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Strain: TA97

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	195 ± 3.5	176 ± 17.0	147 ± 4.6	159 ± 19.2	196 ± 9.4
1.0					
3.0		160 ± 0.7	156 ± 10.0	194 ± 4.1	208 ± 21.6
6.0					
10.0	227 ± 14.2	159 ± 7.2	158 ± 12.7	156 ± 11.8	198 ± 14.4
33.0	233 ± 11.0	163 ± 12.3	150 ± 20.7	176 ± 17.7	223 ± 5.2
66.0					
100.0	258 ± 4.1	131 ± 15.0	158 ± 15.6	201 ± 11.9	237 ± 10.2
333.0	264 ± 4.5	158 ± 26.7	196 ± 13.2	205 ± 4.4	213 ± 15.6
666.0	18 ± 9.8 ^s				
Trial Summary	Equivocal	Negative	Equivocal	Equivocal	Negative
Positive Control ²					
Positive Control ³	1836 ± 29.3	483 ± 21.5	867 ± 14.8		
Positive Control ⁵				647 ± 24.7	488 ± 6.2
Positive Control ⁷					
Positive Control ⁶					

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Strain: TA97

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	122 ± 4.5	194 ± 5.7	141 ± 8.1	135 ± 2.9	154 ± 2.3
1.0					
3.0	130 ± 14.3		119 ± 3.0	159 ± 5.3	165 ± 8.4
6.0					
10.0	130 ± 14.5	178 ± 7.4	142 ± 2.9	147 ± 20.3	145 ± 3.6
33.0	123 ± 3.5	200 ± 6.1	142 ± 14.8	146 ± 13.9	146 ± 4.2
66.0					
100.0	163 ± 10.5	212 ± 1.7	127 ± 8.0	171 ± 4.8	159 ± 5.8
333.0	72 ± 21.9	226 ± 7.6	47 ± 47.0 ^x	172 ± 19.9	150 ± 12.1
666.0		31 ± 14.5 ^s			
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²	1536 ± 14.9	1826 ± 9.8	556 ± 27.1	893 ± 83.0	
Positive Control ³					764 ± 46.0
Positive Control ⁵					
Positive Control ⁷					
Positive Control ⁶					

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	115 ± 8.1
1.0	
3.0	167 ± 8.7
6.0	
10.0	180 ± 7.5
33.0	167 ± 6.2
66.0	
100.0	108 ± 54.7
333.0	168 ± 10.0
666.0	
Trial Summary	Equivocal
Positive Control ²	
Positive Control ³	445 ± 53.0
Positive Control ⁵	
Positive Control ⁷	
Positive Control ⁶	

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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	27 ± 0.9	16 ± 1.5	44 ± 4.0	29 ± 3.1	39 ± 5.5
1.0	29 ± 1.3				
3.0	31 ± 3.2	19 ± 4.1		33 ± 3.5	
6.0		24 ± 2.4			
10.0	37 ± 1.2	17 ± 1.8	36 ± 4.0	30 ± 3.2	40 ± 7.1
33.0	36 ± 2.0	13 ± 4.3	45 ± 2.3	33 ± 5.8	39 ± 5.3
66.0		0 ± 0.3 ^s			
100.0	0 ± 0.0 ^s		44 ± 2.8	26 ± 8.1	42 ± 0.9
333.0			43 ± 2.9	36 ± 0.6	35 ± 2.2
666.0			6 ± 3.5 ^s		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1971 ± 95.5
Positive Control ³			1680 ± 85.3	100 ± 2.0	
Positive Control ⁸	896 ± 8.8	898 ± 40.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	28 ± 2.0
1.0	
3.0	28 ± 1.2
6.0	
10.0	27 ± 1.5
33.0	29 ± 1.2
66.0	
100.0	34 ± 0.3
333.0	41 ± 4.8
666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	396 ± 7.1
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: 50.0 ug/Plate 9-Aminoacridine

7: 25.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

x: Slight Toxicity and Precipitate

** END OF REPORT **