

Experiment Number: 666177

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: **12:09:38**

NTP Study Number:

666177

Study Result:

Positive

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Test Compound: 2-Nitroethanol

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	118 ± 5.5	110 ± 5.0	134 ± 10.5	128 ± 0.6	121 ± 3.3
3.3		108 ± 4.7			
10.0	115 ± 6.9	108 ± 3.4	127 ± 3.5		
33.0	134 ± 2.6	125 ± 9.3	100 ± 5.3	119 ± 6.3	
100.0	156 ± 7.0	150 ± 9.2	105 ± 4.0	139 ± 7.8	125 ± 12.9
200.0		188 ± 16.2	5 ± 3.3 ^s		
250.0			0 ± 0.0 ^s		
333.0	102 ± 2.5 ^s			153 ± 2.1	139 ± 5.2
667.0	Toxic				147 ± 7.2
850.0					
1000.0				179 ± 6.1	183 ± 2.0
1500.0					Toxic
2000.0				Toxic	
Trial Summary	Equivocal	Weakly Positive	Negative	Equivocal	Equivocal
Positive Control ²	489 ± 6.8	661 ± 21.9	522 ± 11.6		
Positive Control ³					
Positive Control ⁴				1111 ± 15.7	1194 ± 71.7

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	171 ± 3.8	130 ± 2.4	114 ± 5.8	155 ± 4.7
3.3				
10.0				
33.0		125 ± 8.1		
100.0	185 ± 4.3	138 ± 10.4	130 ± 4.1	143 ± 9.9
200.0				
250.0				
333.0	188 ± 17.6	137 ± 9.3	122 ± 4.2	151 ± 3.0
667.0	193 ± 2.6		146 ± 5.4	152 ± 12.0
850.0	205 ± 3.5			151 ± 12.1
1000.0	197 ± 11.7	140 ± 1.7	168 ± 9.3	145 ± 6.4
1500.0			Toxic	
2000.0		34 ± 31.0 ^s		
Trial Summary	Negative	Negative	Equivocal	Negative
Positive Control ²				
Positive Control ³		737 ± 24.5	597 ± 18.3	
Positive Control ⁴	1584 ± 64.8			776 ± 25.4

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Test Compound: 2-Nitroethanol

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Strain: TA1538

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	14 ± 2.8	17 ± 0.7	20 ± 3.5	25 ± 3.7	21 ± 1.8
3.3	17 ± 1.5				
10.0	23 ± 2.7	30 ± 0.9			
33.0	30 ± 1.0	56 ± 1.0			
100.0	51 ± 1.7	84 ± 5.2	30 ± 2.0	35 ± 3.0	31 ± 3.8
200.0	71 ± 3.0	68 ± 5.1 ^s			
250.0		6 ± 6.3 ^s			
333.0			58 ± 9.0	69 ± 8.3	59 ± 3.2
667.0			89 ± 6.2	99 ± 2.9	91 ± 4.9
850.0				150 ± 3.8	
1000.0			119 ± 3.4	130 ± 4.8	113 ± 1.3
1500.0			Toxic		Toxic
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ³			587 ± 15.4	434 ± 26.1	637 ± 57.3
Positive Control ⁵	389 ± 15.0	355 ± 8.3			

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Test Compound: **2-Nitroethanol**

CAS Number: **625-48-9**

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Strain: TA1538

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	24 ± 0.9
3.3	
10.0	
33.0	
100.0	33 ± 3.2
200.0	
250.0	
333.0	64 ± 2.3
667.0	112 ± 2.2
850.0	135 ± 5.5
1000.0	162 ± 6.4
1500.0	
Trial Summary	Positive
Positive Control ³	514 ± 11.9
Positive Control ⁵	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: 2-Nitroethanol

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	16 ± 2.1	20 ± 2.5	35 ± 4.5	33 ± 2.8	24 ± 0.3
3.3		23 ± 4.1			
10.0	20 ± 3.0	26 ± 0.7		36 ± 5.9	
33.0	35 ± 2.2	38 ± 2.6	39 ± 3.8	34 ± 3.8	16 ± 4.4
100.0	52 ± 2.3	75 ± 5.0	36 ± 3.4	41 ± 5.2	27 ± 5.2
333.0	20 ± 10.3 ^s	Toxic	50 ± 5.7	45 ± 3.5	31 ± 4.8
667.0	Toxic				
1000.0			67 ± 4.1	91 ± 4.0	68 ± 3.8
2000.0			Toxic		13 ± 1.5 ^s
Trial Summary	Positive	Positive	Equivocal	Equivocal	Equivocal
Positive Control ⁵	268 ± 31.5	479 ± 13.0			
Positive Control ³			347 ± 15.6	369 ± 13.4	503 ± 32.7

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	34 ± 2.1
3.3	
10.0	30 ± 5.1
33.0	41 ± 3.5
100.0	36 ± 4.5
333.0	50 ± 4.3
667.0	
1000.0	96 ± 1.2
2000.0	
Trial Summary	Positive
Positive Control ⁵	
Positive Control ³	345 ± 11.9

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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: Dimethyl Sulfoxide

2: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****