

Experiment Number: **G625489B**

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

G06: Ames Summary Data

Test Compound: **2-Nitroethanol**

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

Date Report Requested: **09/16/2018**

Time Report Requested: **11:04:51**

NTP Study Number:

G625489B

Study Result:

Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	76 ± 8.4	108 ± 1.5	84 ± 6.2	112 ± 11.6
12.5	98 ± 1.5	111 ± 4.0	95 ± 4.9	119 ± 9.9
50.0	93 ± 6.7	110 ± 7.6	92 ± 3.7	110 ± 4.7
125.0	97 ± 4.3	119 ± 4.9	81 ± 5.7	107 ± 7.2
500.0	117 ± 3.2	155 ± 13.9	88 ± 6.0	114 ± 4.4
1000.0	155 ± 18.0	93 ± 17.7	85 ± 2.0	107 ± 8.0
1500.0	Toxic	Toxic	104 ± 1.7	99 ± 7.9
Trial Summary	Positive	Negative	Negative	Negative
Positive Control ²	476 ± 25.2	704 ± 58.4		
Positive Control ³			1097 ± 234.5	2270 ± 67.9

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	29 ± 3.3	32 ± 5.5	28 ± 5.6	33 ± 3.2
12.5	19 ± 2.2	22 ± 3.4	29 ± 1.7	27 ± 0.3
50.0	18 ± 1.5	29 ± 4.6	32 ± 2.1	34 ± 2.9
125.0	20 ± 2.0	24 ± 0.9	24 ± 1.7	25 ± 4.2
500.0	23 ± 4.4	40 ± 1.2	30 ± 1.5	21 ± 2.3
1000.0	4 ± 2.6	Toxic	23 ± 1.5	26 ± 3.8
1500.0	Toxic	Toxic	29 ± 4.4	26 ± 2.4
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴			1242 ± 67.1	874 ± 30.1
Positive Control ⁵	722 ± 130.3	891 ± 306.3		

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	132 ± 12.6	146 ± 11.9	176 ± 13.9	181 ± 8.7
12.5	143 ± 10.0		166 ± 7.1	
50.0	135 ± 1.9	136 ± 12.4	177 ± 9.9	169 ± 3.2
125.0	155 ± 3.7	146 ± 3.7	191 ± 8.3	150 ± 10.3
500.0	144 ± 16.6	173 ± 7.0	167 ± 8.3	189 ± 21.9
1000.0	187 ± 13.9	185 ± 10.8	171 ± 5.8	194 ± 11.6
1500.0	229 ± 9.9	207 ± 9.6	187 ± 11.0	195 ± 7.8
3000.0		Toxic		189 ± 27.1
Trial Summary	Weakly Positive	Weakly Positive	Negative	Negative
Positive Control ⁶			946 ± 4.7	1230 ± 57.5
Positive Control ⁷	898 ± 20.2	1097 ± 93.4		

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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 Sodium Azide
- 3: 2.5 ug/Plate 2-Aminoanthracene
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 3.0 ug/Plate 2-Nitrofluorene
- 6: 20.0 ug/Plate 2-Aminoanthracene
- 7: 100.0 ug/Plate Methyl Methane Sulfonate

**** END OF REPORT ****