

Experiment Number: 860172

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

G06: Ames Summary Data

Test Compound: **Nitromethane**

CAS Number: 75-52-5

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

Time Report Requested: **13:28:16**

NTP Study Number:

860172

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	64 ± 1.9	82 ± 2.8	55 ± 2.3	101 ± 6.1	54 ± 1.7
100.0	70 ± 2.3	104 ± 2.2	86 ± 5.5	109 ± 11.0	92 ± 11.4
333.3	74 ± 3.2	106 ± 10.3	88 ± 2.1	89 ± 4.7	93 ± 4.4
1000.0	64 ± 1.8	92 ± 4.5	88 ± 0.6	94 ± 5.5	85 ± 4.3
3333.3	60 ± 4.2	101 ± 11.3	91 ± 10.3	101 ± 8.4	90 ± 6.7
10000.0	27 ± 15.3 ^s	127 ± 9.1	84 ± 5.7	99 ± 6.1	96 ± 5.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	222 ± 20.9	461 ± 5.9			
Positive Control ³			738 ± 28.9	577 ± 26.1	2168 ± 100.8

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	104 ± 6.8
100.0	113 ± 7.5
333.3	111 ± 0.6
1000.0	101 ± 8.7
3333.3	105 ± 10.0
10000.0	120 ± 3.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1720 ± 67.7

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.2	23 ± 2.0	8 ± 0.6	9 ± 1.2	6 ± 2.3
100.0	7 ± 1.5	19 ± 2.6	5 ± 0.9	13 ± 2.8	8 ± 2.9
333.3	9 ± 1.2	19 ± 1.3	6 ± 1.5	13 ± 2.1	5 ± 1.0
1000.0	10 ± 1.2	21 ± 2.0	5 ± 0.9	9 ± 2.0	4 ± 1.0
3333.3	12 ± 2.7	20 ± 3.0	6 ± 0.6	10 ± 1.9	4 ± 2.0
10000.0	5 ± 2.0	23 ± 1.5	11 ± 1.0	14 ± 1.3	5 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					322 ± 52.9
Positive Control ²	248 ± 13.6	458 ± 19.8			
Positive Control ⁴			332 ± 24.6	392 ± 23.1	

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.5
100.0	10 ± 2.8
333.3	10 ± 1.5
1000.0	11 ± 3.2
3333.3	12 ± 1.8
10000.0	14 ± 3.1
Trial Summary	Negative
Positive Control ³	
Positive Control ²	
Positive Control ⁴	421 ± 16.5

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.2	8 ± 2.6	6 ± 2.2	12 ± 2.2	4 ± 1.5
100.0	3 ± 1.3	7 ± 0.9	6 ± 0.7	4 ± 1.5	5 ± 0.9
333.3	4 ± 0.7	7 ± 1.2	5 ± 0.6	4 ± 1.5	4 ± 0.7
1000.0	3 ± 1.5	8 ± 1.0	6 ± 1.0	5 ± 0.3	2 ± 0.0
3333.3	1 ± 1.0	9 ± 1.7	6 ± 0.9	3 ± 0.6	5 ± 1.8
10000.0	1 ± 0.7	7 ± 3.0	3 ± 0.7	2 ± 0.6	6 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			298 ± 20.9	221 ± 31.0	152 ± 22.0
Positive Control ⁵	530 ± 132.9	431 ± 20.9			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 0.9
100.0	13 ± 2.6
333.3	12 ± 3.2
1000.0	13 ± 2.6
3333.3	15 ± 2.1
10000.0	12 ± 1.9
Trial Summary	Negative
Positive Control ⁴	510 ± 10.7
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	26 ± 4.4	28 ± 1.5	21 ± 2.6	48 ± 4.3	24 ± 3.5
100.0	19 ± 0.3	37 ± 0.3	33 ± 4.2	48 ± 3.6	28 ± 1.5
333.3	17 ± 4.9	34 ± 4.3	25 ± 5.8	43 ± 2.0	32 ± 4.4
1000.0	16 ± 2.6	31 ± 2.8	30 ± 4.7	47 ± 4.5	27 ± 1.8
3333.3	21 ± 2.6	25 ± 2.6	26 ± 5.5	37 ± 3.1	33 ± 2.9
10000.0	16 ± 1.5	30 ± 5.2	26 ± 0.9	39 ± 1.2	26 ± 2.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			458 ± 13.6	511 ± 35.6	1733 ± 92.8
Positive Control ⁶	837 ± 116.2	777 ± 23.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	40 ± 1.9
100.0	43 ± 6.2
333.3	33 ± 5.6
1000.0	44 ± 1.3
3333.3	41 ± 0.9
10000.0	36 ± 5.7
Trial Summary	Negative
Positive Control ³	1598 ± 76.2
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 Sodium Azide
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

**** END OF REPORT ****