

Experiment Number: 192306

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Nitropropane

CAS Number: 79-46-9

Date Report Requested: 09/14/2018

Time Report Requested: 02:03:28

NTP Study Number: 192306

Study Result: Positive

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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	95 ± 4.2	112 ± 5.9	120 ± 5.0	124 ± 4.3	110 ± 9.9
33.3	115 ± 7.5	98 ± 4.8	130 ± 2.9	136 ± 3.8	128 ± 12.7
333.3	150 ± 6.4	113 ± 5.5	161 ± 7.3	143 ± 7.4	150 ± 6.0
1000.0	212 ± 6.6	135 ± 4.1	196 ± 11.8	174 ± 7.2	206 ± 6.2
3333.3	387 ± 14.0	210 ± 10.7	299 ± 13.2	241 ± 11.1	329 ± 22.5
6666.7	362 ± 7.0	281 ± 14.3	459 ± 12.3	276 ± 10.2	460 ± 10.8
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²			195 ± 11.0	904 ± 24.8	203 ± 9.0
Positive Control ³	286 ± 9.0	190 ± 7.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	112 ± 12.9
33.3	115 ± 29.2
333.3	147 ± 11.3
1000.0	178 ± 5.5
3333.3	270 ± 6.0
6666.7	305 ± 5.7
Trial Summary	Positive
Positive Control ²	1646 ± 98.9
Positive Control ³	

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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	20 ± 2.8	26 ± 4.2	12 ± 1.5	12 ± 0.9	10 ± 0.7
33.3	26 ± 4.5	12 ± 3.5	16 ± 2.7	11 ± 2.3	17 ± 0.7
333.3	22 ± 3.8	15 ± 0.6	16 ± 1.2	12 ± 1.8	18 ± 0.3
1000.0	28 ± 1.9	20 ± 3.9	25 ± 0.7	12 ± 2.0	23 ± 3.3
3333.3	38 ± 3.7	31 ± 4.7	27 ± 0.9	23 ± 1.2	33 ± 4.3
6666.7	34 ± 3.4	36 ± 4.0	31 ± 3.3	27 ± 1.2	39 ± 2.8
Trial Summary	Equivocal	Negative	Weakly Positive	Weakly Positive	Positive
Positive Control ³	287 ± 11.6	191 ± 9.0			
Positive Control ⁴			94 ± 11.4	490 ± 12.3	127 ± 1.0

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	13 ± 0.3
33.3	9 ± 2.1
333.3	15 ± 3.8
1000.0	19 ± 5.2
3333.3	24 ± 3.3
6666.7	31 ± 2.6
Trial Summary	Weakly Positive
Positive Control ³	
Positive Control ⁴	538 ± 8.4

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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	9 ± 3.4	7 ± 1.0	18 ± 0.7	16 ± 2.0	12 ± 2.0
33.3	10 ± 3.8	7 ± 1.2	22 ± 3.5	12 ± 2.2	21 ± 1.9
333.3	6 ± 1.2	5 ± 1.7	25 ± 0.3	9 ± 3.0	20 ± 0.3
1000.0	13 ± 0.9	8 ± 2.1	21 ± 4.3	5 ± 1.5	22 ± 1.3
3333.3	11 ± 3.7	7 ± 2.0	22 ± 3.1	10 ± 1.5	26 ± 3.2
6666.7	10 ± 2.1	5 ± 1.2	30 ± 4.7	11 ± 3.1	32 ± 6.0
Trial Summary	Negative	Negative	Negative	Negative	Weakly Positive
Positive Control ⁴			39 ± 7.4	532 ± 21.7	50 ± 0.9
Positive Control ⁵	413 ± 39.1	248 ± 75.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	17 ± 0.7
33.3	14 ± 3.2
333.3	15 ± 0.6
1000.0	15 ± 3.1
3333.3	16 ± 0.9
6666.7	10 ± 3.0
Trial Summary	Negative
Positive Control ⁴	554 ± 29.2
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	33 ± 1.5	23 ± 2.2	35 ± 2.8	24 ± 3.2	49 ± 2.1
33.3	32 ± 3.0	17 ± 1.3	41 ± 5.7	32 ± 6.7	43 ± 1.2
333.3	45 ± 5.2	25 ± 3.6	49 ± 6.7	29 ± 2.6	42 ± 1.0
1000.0	54 ± 7.4	25 ± 3.2	83 ± 2.1	37 ± 4.3	85 ± 3.8
3333.3	88 ± 5.5	38 ± 0.3	122 ± 35.3	54 ± 7.0	147 ± 10.4
6666.7	137 ± 6.1	42 ± 1.8	212 ± 6.4	75 ± 5.6	224 ± 7.4
Trial Summary	Positive	Equivocal	Positive	Positive	Positive
Positive Control ²			114 ± 6.5	666 ± 158.7	158 ± 7.3
Positive Control ⁶	626 ± 11.2	883 ± 13.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	38 ± 3.8
33.3	34 ± 2.3
333.3	39 ± 7.6
1000.0	38 ± 1.7
3333.3	71 ± 4.2
6666.7	75 ± 3.8
Trial Summary	Weakly Positive
Positive Control ²	1361 ± 21.7
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 2-Aminoanthracene
- 3: 1.0 ug/Plate Sodium Azide
- 4: 2.5 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **