

Experiment Number: 087020

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: N-Propyl methacrylate

CAS Number: 2210-28-8

Date Report Requested: 09/11/2018

Time Report Requested: 06:32:57

NTP Study Number:

087020

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	98 ± 2.0	101 ± 2.5	144 ± 13.3	113 ± 8.1	145 ± 6.2
100.0	99 ± 6.0	94 ± 3.5	126 ± 6.4	113 ± 2.6	141 ± 8.1
333.0	93 ± 9.2	100 ± 2.2	131 ± 10.3	122 ± 6.4	147 ± 6.4
1000.0	69 ± 14.0	92 ± 7.3	146 ± 2.9	110 ± 5.2	147 ± 6.9
3333.0	94 ± 2.8	95 ± 3.9	145 ± 2.8	133 ± 10.9	135 ± 2.6
10000.0	93 ± 1.8	75 ± 10.7	146 ± 5.5	125 ± 8.7	121 ± 6.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1691 ± 108.4	2601 ± 235.8	1546 ± 267.8
Positive Control ³	1301 ± 14.7	1407 ± 75.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	113 ± 11.7
100.0	123 ± 4.1
333.0	112 ± 7.8
1000.0	130 ± 7.4
3333.0	116 ± 15.2
10000.0	107 ± 1.2
Trial Summary	Negative
Positive Control ²	1286 ± 119.8
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 33.0	13 ± 2.3	20 ± 1.7	15 ± 1.9	16 ± 3.2	12 ± 2.0
100.0	4 ± 0.3	29 ± 2.4	3 ± 1.7	15 ± 2.3	7 ± 3.9
333.0	8 ± 0.6	30 ± 1.5	4 ± 0.3	17 ± 1.8	12 ± 0.6
1000.0	8 ± 0.9	29 ± 2.1	1 ± 0.3	24 ± 2.5	12 ± 3.0
3333.0	7 ± 1.0	30 ± 2.6	5 ± 0.6	22 ± 2.0	8 ± 1.2
10000.0	5 ± 1.5	28 ± 2.0	6 ± 1.5	17 ± 1.8	8 ± 1.8
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ⁴			334 ± 45.1	328 ± 26.6	285 ± 12.4
Positive Control ³	914 ± 120.9	1071 ± 58.3			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 2.4	14 ± 1.8
33.0		18 ± 1.7
100.0	16 ± 1.2	13 ± 1.0
333.0	19 ± 5.3	16 ± 1.2
1000.0	24 ± 0.9	20 ± 1.2
3333.0	22 ± 1.2	15 ± 1.8
10000.0	23 ± 0.6	
Trial Summary	Equivocal	Negative
Positive Control ⁴	233 ± 15.5	421 ± 15.5
Positive Control ³		

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	6 ± 0.7	19 ± 1.5	8 ± 1.2	6 ± 1.2	24 ± 2.1
10.0		19 ± 0.6	7 ± 0.9		26 ± 1.2
33.0		19 ± 3.0	8 ± 1.0		24 ± 1.2
100.0	9 ± 0.9	22 ± 1.0	10 ± 0.9	3 ± 1.5	22 ± 0.5
333.0	3 ± 2.0	17 ± 2.9	6 ± 1.2	3 ± 1.5	28 ± 0.3
1000.0	6 ± 1.5	19 ± 4.3	8 ± 0.9	3 ± 1.5	25 ± 0.9
3333.0	0 ± 0.0			0 ± 0.0	
10000.0	0 ± 0.0			0 ± 0.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				278 ± 79.3	129 ± 7.2
Positive Control ³			228 ± 35.3		
Positive Control ⁵	767 ± 202.2	325 ± 43.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 0.7	9 ± 1.3	23 ± 2.3	18 ± 0.9
10.0	16 ± 0.7		24 ± 0.6	19 ± 1.5
33.0	14 ± 1.3		22 ± 0.5	18 ± 0.7
100.0	11 ± 1.9	2 ± 1.5	24 ± 1.9	16 ± 2.0
333.0	14 ± 1.7	3 ± 0.7	25 ± 2.3	14 ± 2.3
1000.0	14 ± 0.6	4 ± 1.8	24 ± 2.2	15 ± 0.3
3333.0		0 ± 0.0		
10000.0		0 ± 0.0		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴	323 ± 44.3	269 ± 11.4	181 ± 3.7	335 ± 42.9
Positive Control ³				
Positive Control ⁵				

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	10 ± 2.7	27 ± 1.8	28 ± 2.8	9 ± 3.0	43 ± 5.0
100.0	20 ± 1.5	24 ± 3.3	25 ± 4.3	30 ± 0.9	43 ± 4.7
333.0	18 ± 0.9	26 ± 1.5	27 ± 2.3	25 ± 5.8	39 ± 3.6
1000.0	15 ± 1.0	30 ± 2.7	31 ± 4.6	22 ± 2.9	42 ± 5.6
3333.0	16 ± 0.3	29 ± 2.2	30 ± 4.7	23 ± 3.8	35 ± 4.5
10000.0	13 ± 1.7	25 ± 0.9	26 ± 2.1	20 ± 4.6	38 ± 2.4
Trial Summary	Equivocal	Negative	Negative	Equivocal	Negative
Positive Control ²				612 ± 68.5	1962 ± 61.6
Positive Control ⁶	203 ± 12.5	249 ± 27.1	535 ± 16.8		

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	37 ± 12.3	7 ± 1.7	31 ± 2.0	42 ± 9.0
100.0	20 ± 3.0	26 ± 2.9	38 ± 4.0	42 ± 4.9
333.0	18 ± 0.9	28 ± 3.3	38 ± 3.3	41 ± 4.5
1000.0	19 ± 4.1	21 ± 1.9	38 ± 1.0	42 ± 5.8
3333.0	15 ± 0.3	23 ± 0.9	43 ± 5.1	47 ± 5.9
10000.0	18 ± 2.3	13 ± 1.5	34 ± 6.2	36 ± 2.6
Trial Summary	Negative	Equivocal	Negative	Negative
Positive Control ²	2017 ± 315.7	706 ± 74.2	1328 ± 188.3	1638 ± 74.5
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: 3.3 ug/Plate Sodium Azide
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 33.0 ug/Plate 9-Aminoacridine
- 6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **