

Experiment Number: 999043

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: p-Nitrophenethyl alcohol

CAS Number: 100-27-6

Date Report Requested: 09/15/2018

Time Report Requested: 10:27:06

NTP Study Number:

999043

Study Result:

Positive

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Test Compound: p-Nitrophenethyl alcohol
CAS Number: 100-27-6

Date Report Requested: 09/15/2018

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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	112 ± 7.6	105 ± 9.3	90 ± 6.5	108 ± 9.3	98 ± 15.0
33.0	98 ± 4.4				
100.0	104 ± 4.1	90 ± 6.2	94 ± 4.4	119 ± 8.5	92 ± 3.5
333.0	120 ± 11.9	111 ± 5.5	128 ± 6.4	123 ± 3.6	123 ± 11.4
1000.0	169 ± 19.1	137 ± 2.0	180 ± 2.3	199 ± 7.1	197 ± 6.1
3333.0	309 ± 2.8	130 ± 14.0 ^s	351 ± 14.5	303 ± 39.9	406 ± 6.3
5000.0		Toxic		Toxic	
6666.0			Toxic		Toxic
Trial Summary	Positive	Equivocal	Positive	Positive	Positive
Positive Control ²					1067 ± 42.7
Positive Control ³			1684 ± 53.9	1556 ± 296.1	
Positive Control ⁴	697 ± 49.0	1407 ± 18.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	100 ± 0.5
33.0	
100.0	105 ± 6.2
333.0	88 ± 12.8
1000.0	159 ± 14.7
3333.0	396 ± 15.2
5000.0	381 ± 14.3 ^s
6666.0	
Trial Summary	Positive
Positive Control ²	643 ± 31.1
Positive Control ³	
Positive Control ⁴	

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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	44 ± 3.5	23 ± 0.9	17 ± 2.3	13 ± 0.6	14 ± 0.7
33.0	48 ± 4.2				
100.0	44 ± 3.0	20 ± 0.3	22 ± 1.7	16 ± 2.0	18 ± 3.5
333.0	45 ± 2.0	21 ± 0.9	19 ± 1.5	16 ± 0.3	18 ± 2.7
1000.0	59 ± 2.3	36 ± 3.5	26 ± 4.7	30 ± 0.9	31 ± 1.7
3333.0	65 ± 4.1	22 ± 3.0 ^s	45 ± 4.8	52 ± 4.6	55 ± 5.4
5000.0		Toxic		38 ± 13.5 ^s	
6666.0			Toxic		Toxic
Trial Summary	Equivocal	Negative	Weakly Positive	Positive	Positive
Positive Control ²					81 ± 7.4
Positive Control ³			110 ± 8.0	137 ± 14.1	
Positive Control ⁴	954 ± 18.5	835 ± 11.2			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 0.3
33.0	
100.0	11 ± 0.6
333.0	18 ± 0.6
1000.0	27 ± 6.4
3333.0	50 ± 4.2
5000.0	Toxic
6666.0	
Trial Summary	Positive
Positive Control ²	121 ± 9.7
Positive Control ³	
Positive Control ⁴	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	114 ± 5.2	113 ± 11.2	170 ± 9.0	143 ± 6.7	169 ± 12.3
33.0	103 ± 6.2				
100.0	106 ± 7.2	123 ± 8.4	154 ± 1.2	142 ± 4.8	173 ± 8.9
333.0	132 ± 10.7	112 ± 7.0	176 ± 11.1	158 ± 5.7	180 ± 7.9
1000.0	135 ± 6.4	134 ± 10.3	193 ± 7.5	194 ± 6.5	197 ± 6.8
3333.0	154 ± 5.5 ^s	105 ± 13.6 ^s	246 ± 5.4	254 ± 11.2	256 ± 7.1
5000.0		Toxic		196 ± 9.9 ^s	
6666.0			Toxic		Toxic
Trial Summary	Equivocal	Negative	Equivocal	Equivocal	Equivocal
Positive Control ²					1023 ± 58.8
Positive Control ³			1491 ± 21.9	883 ± 167.8	
Positive Control ⁵					
Positive Control ⁶	917 ± 12.2	648 ± 16.8			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	149 ± 8.2
33.0	
100.0	129 ± 9.5
333.0	165 ± 5.8
1000.0	147 ± 14.6
3333.0	222 ± 0.7
5000.0	228 ± 10.7 ^s
6666.0	
Trial Summary	Equivocal
Positive Control ²	
Positive Control ³	
Positive Control ⁵	1149 ± 48.0
Positive Control ⁶	

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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	17 ± 1.5	16 ± 4.0	35 ± 8.5	28 ± 3.0	34 ± 2.3
33.0	23 ± 3.3				
100.0	24 ± 1.9	18 ± 2.6	42 ± 9.9	41 ± 3.8	68 ± 22.9
333.0	36 ± 2.7	22 ± 1.2	63 ± 1.2	60 ± 5.3	65 ± 5.4
1000.0	65 ± 3.0	42 ± 4.6	110 ± 4.0	104 ± 11.8	86 ± 9.1
3333.0	82 ± 4.6	82 ± 4.8 ^s	186 ± 13.1	249 ± 15.4	194 ± 3.5
5000.0		115 ± 5.0 ^s		143 ± 12.2 ^s	
6666.0			507 ± 126.3 ^s		244 ± 16.5 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²					1146 ± 25.1
Positive Control ³			2042 ± 17.7	1508 ± 49.9	
Positive Control ⁷	1995 ± 13.4	1822 ± 7.8			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	34 ± 0.9
33.0	
100.0	35 ± 3.9
333.0	44 ± 2.1
1000.0	76 ± 5.5
3333.0	196 ± 11.9
5000.0	218 ± 11.4 ^s
6666.0	
Trial Summary	Positive
Positive Control ²	803 ± 84.9
Positive Control ³	
Positive Control ⁷	

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 2.0 ug/Plate 2-Aminoanthracene

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****