

Experiment Number: A31221

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

G06: Ames Summary Data

Test Compound: **1-n-Pentene**

CAS Number: **109-67-1**

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

Time Report Requested: **15:33:53**

NTP Study Number:

A31221

Study Result:

Negative

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Date Report Requested: 09/16/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	129 ± 6.4	117 ± 10.0	112 ± 4.4	190 ± 2.6	105 ± 4.9
0.0		0 ± 0.0	0 ± 0.0		0 ± 0.0
100.0	131 ± 2.0	109 ± 9.0	98 ± 9.7	164 ± 6.6	102 ± 5.8
333.0	141 ± 2.8	106 ± 7.8	106 ± 1.8	187 ± 2.0	111 ± 4.9
1000.0	144 ± 8.8	112 ± 8.6	124 ± 6.9	164 ± 3.8	111 ± 3.5
3333.0	149 ± 13.5	106 ± 2.8	120 ± 5.6	172 ± 9.9	117 ± 5.5
10000.0	153 ± 3.2	123 ± 0.3	90 ± 9.2	179 ± 5.9	74 ± 8.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					640 ± 25.5
Positive Control ³			479 ± 17.4		
Positive Control ⁴	847 ± 33.6	946 ± 17.4			
Positive Control ⁵				618 ± 11.4	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	149 ± 7.9
0.0	
100.0	139 ± 4.4
333.0	146 ± 7.0
1000.0	162 ± 1.2
3333.0	155 ± 17.6
10000.0	156 ± 5.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	651 ± 27.8
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 1.5	11 ± 1.9	7 ± 0.9	12 ± 0.9	8 ± 1.7
100.0	10 ± 0.0	7 ± 0.6	12 ± 1.2	11 ± 0.9	8 ± 0.7
333.0	10 ± 2.2	10 ± 0.3	8 ± 0.3	13 ± 1.5	11 ± 2.7
1000.0	8 ± 0.7	9 ± 1.0	10 ± 0.6	8 ± 1.0	7 ± 1.2
3333.0	11 ± 1.2	9 ± 1.2	8 ± 0.7	12 ± 0.3	8 ± 1.5
10000.0	10 ± 2.2	11 ± 1.9	9 ± 1.2	9 ± 2.3	7 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					56 ± 5.4
Positive Control ⁴	877 ± 17.5	974 ± 12.9			
Positive Control ⁵			77 ± 8.5		
Positive Control ⁶				86 ± 7.3	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	6 ± 0.6
100.0	9 ± 1.8
333.0	10 ± 2.7
1000.0	7 ± 1.7
3333.0	11 ± 2.6
10000.0	7 ± 2.6
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	105 ± 6.2
Positive Control ⁶	

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 Test Compound: 1-n-Pentene
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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	133 ± 6.0	91 ± 9.3	120 ± 3.9	210 ± 9.9	112 ± 4.3
0.0					0 ± 0.0
100.0	137 ± 4.4	101 ± 6.9	125 ± 7.2	197 ± 6.7	135 ± 5.6
333.0	147 ± 5.7	102 ± 2.2	113 ± 1.8	205 ± 12.8	128 ± 12.2
1000.0	131 ± 2.2	100 ± 3.3	140 ± 8.1	194 ± 1.8	102 ± 6.1
3333.0	133 ± 4.2	112 ± 7.0	127 ± 8.8	182 ± 6.7	108 ± 2.3
10000.0	132 ± 7.4	113 ± 10.1	137 ± 10.8	162 ± 3.4	106 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					571 ± 6.7
Positive Control ³			610 ± 18.4		
Positive Control ⁵				637 ± 12.2	
Positive Control ⁷	570 ± 29.4	497 ± 20.2			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	154 ± 14.2
0.0	
100.0	143 ± 15.5
333.0	142 ± 6.2
1000.0	149 ± 12.5
3333.0	155 ± 1.2
10000.0	135 ± 12.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	640 ± 26.1
Positive Control ⁵	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	23 ± 2.4	22 ± 5.6	26 ± 5.2	25 ± 4.3	22 ± 3.0
0.0		0 ± 0.0	0 ± 0.0		0 ± 0.0
100.0	21 ± 3.7	24 ± 2.3	26 ± 1.8	25 ± 0.6	26 ± 5.5
333.0	24 ± 1.5	22 ± 0.9	27 ± 1.7	27 ± 1.2	22 ± 0.3
1000.0	29 ± 2.6	25 ± 1.2	32 ± 3.2	25 ± 4.6	28 ± 2.0
3333.0	17 ± 1.2	23 ± 2.5	25 ± 2.8	26 ± 1.2	25 ± 3.8
10000.0	21 ± 2.0	19 ± 2.3	16 ± 0.6	32 ± 4.0	19 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					515 ± 18.9
Positive Control ³			380 ± 11.7		
Positive Control ⁸	339 ± 26.2	676 ± 17.9			
Positive Control ⁵				459 ± 9.9	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	27 ± 2.2
0.0	
100.0	24 ± 3.7
333.0	22 ± 1.5
1000.0	21 ± 2.6
3333.0	23 ± 2.7
10000.0	30 ± 4.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	514 ± 8.1
Positive Control ⁸	
Positive Control ⁵	

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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: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

** END OF REPORT **