

Experiment Number: **A68120**

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

G06: Ames Summary Data

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

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

Date Report Requested: **09/17/2018**

Time Report Requested: **14:19:10**

NTP Study Number:

A68120

Study Result:

Negative

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Date Report Requested: 09/17/2018
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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	91 ± 3.8	116 ± 11.3	108 ± 1.5	117 ± 9.2	117 ± 5.6
Vehicle Control ²					
100.0	87 ± 3.5	124 ± 5.8	124 ± 0.3	117 ± 4.4	111 ± 6.7
333.0	103 ± 2.3	115 ± 8.2	122 ± 3.3	100 ± 8.2	109 ± 4.3
1000.0	91 ± 4.9	130 ± 16.0	116 ± 9.8	96 ± 10.0	118 ± 4.7
3333.0	95 ± 8.4	116 ± 9.4	120 ± 5.1	113 ± 2.3	114 ± 10.3
10000.0	92 ± 4.2 ^s	48 ± 36.0 ^s	96 ± 5.7	107 ± 3.8	87 ± 12.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					617 ± 12.9
Positive Control ⁴			480 ± 34.5		
Positive Control ⁵	818 ± 29.6	947 ± 19.1			
Positive Control ⁶				427 ± 9.8	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
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Vehicle Control¹

Vehicle Control²

107 ± 12.6

100.0

98 ± 3.5

333.0

94 ± 3.0

1000.0

101 ± 11.5

3333.0

101 ± 6.9

10000.0

112 ± 6.4

Trial Summary

Negative

Positive Control³

Positive Control⁴

554 ± 22.4

Positive Control⁵

Positive Control⁶

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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 ± 2.3	9 ± 1.8	8 ± 2.3	12 ± 1.5	10 ± 2.2
100.0	13 ± 1.0	8 ± 2.4	9 ± 1.3	12 ± 2.0	7 ± 0.3
333.0	14 ± 0.0	10 ± 2.8	9 ± 2.3	14 ± 0.7	6 ± 0.9
1000.0	12 ± 2.0	13 ± 2.6	6 ± 3.6	13 ± 0.9	8 ± 2.6
3333.0	14 ± 0.9	6 ± 1.7	8 ± 2.7	18 ± 0.6	6 ± 1.2
10000.0	11 ± 0.9 ^s	6 ± 2.0 ^s	8 ± 3.3	13 ± 1.0	4 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					81 ± 9.2
Positive Control ⁵	988 ± 20.6	942 ± 9.3			
Positive Control ⁶			58 ± 2.0		
Positive Control ⁷				82 ± 7.3	

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CAS Number: 109-67-1

Date Report Requested: 09/17/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 2.3
100.0	9 ± 1.3
333.0	10 ± 1.7
1000.0	9 ± 1.0
3333.0	8 ± 0.6
10000.0	9 ± 0.3
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁵	
Positive Control ⁶	147 ± 12.3
Positive Control ⁷	

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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	167 ± 11.0	230 ± 11.0	162 ± 14.7	178 ± 13.2	117 ± 12.0
100.0	156 ± 6.8	139 ± 1.5	180 ± 10.7	212 ± 6.8	144 ± 10.7
333.0	130 ± 10.0	128 ± 8.7	177 ± 11.8	202 ± 9.0	159 ± 3.8
1000.0	152 ± 11.6	154 ± 8.3	191 ± 8.0	192 ± 16.4	166 ± 13.3
3333.0	166 ± 0.6	145 ± 5.3	174 ± 6.9	190 ± 7.0	151 ± 7.2
10000.0	114 ± 11.1 ^s	60 ± 14.6 ^s	157 ± 7.5	178 ± 4.3	129 ± 8.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					577 ± 32.9
Positive Control ⁴			450 ± 15.7		
Positive Control ⁶				560 ± 3.5	
Positive Control ⁸	507 ± 49.4	479 ± 12.5			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	174 ± 12.2
100.0	184 ± 4.3
333.0	163 ± 3.4
1000.0	150 ± 7.2
3333.0	160 ± 3.8
10000.0	176 ± 8.1
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	605 ± 1.5
Positive Control ⁶	
Positive Control ⁸	

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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	11 ± 1.2	23 ± 2.8	22 ± 1.7	14 ± 3.5	27 ± 2.8
100.0	13 ± 1.9	21 ± 3.8	25 ± 1.9	17 ± 1.5	29 ± 4.7
333.0	16 ± 1.2	21 ± 0.3	27 ± 3.0	18 ± 1.5	26 ± 2.6
1000.0	17 ± 2.5	22 ± 2.0	21 ± 2.6	15 ± 3.1	20 ± 0.3
3333.0	15 ± 0.3	21 ± 1.2	19 ± 3.8	22 ± 5.1	31 ± 4.2
10000.0	9 ± 3.0 ^s	10 ± 2.5 ^s	21 ± 4.0	18 ± 1.5	22 ± 4.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					466 ± 17.6
Positive Control ⁴			338 ± 11.2		
Positive Control ⁹	600 ± 50.9	472 ± 41.4			
Positive Control ⁶				215 ± 10.1	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	16 ± 1.2
100.0	17 ± 2.1
333.0	17 ± 1.5
1000.0	17 ± 4.3
3333.0	13 ± 0.6
10000.0	16 ± 2.0
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	242 ± 18.7
Positive Control ⁹	
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: Vehicle Control: Water
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 5.0 ug/Plate Sodium Azide
- 6: 5.0 ug/Plate 2-Aminoanthracene
- 7: 10.0 ug/Plate 2-Aminoanthracene
- 8: 50.0 ug/Plate 9-Aminoacridine
- 9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

** END OF REPORT **