

Experiment Number: **A82690**

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

G06: Ames Summary Data

Test Compound: **1-n-Hexene**

CAS Number: **592-41-6**

Date Report Requested: **09/18/2018**

Time Report Requested: **00:13:21**

NTP Study Number:

A82690

Study Result:

Negative

Experiment Number: A82690
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 CAS Number: 592-41-6

Date Report Requested: 09/18/2018
 Time Report Requested: 00:13:21

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	139 ± 7.1	87 ± 5.2	93 ± 1.5	160 ± 9.9	100 ± 5.2
100.0	150 ± 3.3	99 ± 4.7	99 ± 2.3	156 ± 7.2	108 ± 3.3
333.0	132 ± 9.5	93 ± 3.5	102 ± 5.5	174 ± 8.5	113 ± 5.5
1000.0	157 ± 8.4	96 ± 0.9	99 ± 7.3	159 ± 11.7	107 ± 4.5
3333.0	148 ± 3.3	95 ± 1.2	98 ± 3.8	173 ± 6.1	102 ± 5.1
10000.0	118 ± 2.1 ^s	83 ± 5.6 ^s	62 ± 3.3 ^s	113 ± 2.0 ^s	64 ± 9.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					688 ± 18.8
Positive Control ³			649 ± 16.1		
Positive Control ⁴	847 ± 33.6	778 ± 32.2			
Positive Control ⁵				618 ± 11.4	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	136 ± 3.2
100.0	151 ± 1.9
333.0	136 ± 2.9
1000.0	143 ± 3.8
3333.0	152 ± 2.8
10000.0	114 ± 6.7 ^s
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	13 ± 2.3	8 ± 2.3	9 ± 0.3	11 ± 1.7	7 ± 1.5
100.0	12 ± 3.2	10 ± 1.2	9 ± 1.2	9 ± 1.0	7 ± 3.5
333.0	12 ± 1.0	9 ± 1.2	11 ± 0.9	15 ± 3.7	7 ± 0.7
1000.0	13 ± 4.0	15 ± 1.5	8 ± 0.7	14 ± 0.9	8 ± 2.1
3333.0	11 ± 2.0	10 ± 0.6	7 ± 0.3	15 ± 1.9	6 ± 0.6
10000.0	4 ± 1.5 ^s	6 ± 1.0 ^s	4 ± 0.7 ^s	8 ± 2.2 ^s	3 ± 0.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					96 ± 2.9
Positive Control ⁴	877 ± 17.5	843 ± 16.8			
Positive Control ⁵			87 ± 6.9		
Positive Control ⁶				86 ± 7.3	

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G06: Ames Summary Data
Test Compound: 1-n-Hexene
CAS Number: 592-41-6

Date Report Requested: 09/18/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 2.4
100.0	9 ± 2.3
333.0	13 ± 1.7
1000.0	11 ± 3.0
3333.0	12 ± 1.0
10000.0	8 ± 0.7 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	105 ± 6.2
Positive Control ⁶	

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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	123 ± 2.1	99 ± 8.9	131 ± 5.5	187 ± 8.1	101 ± 8.0
100.0	113 ± 2.0	100 ± 8.2	137 ± 1.2	199 ± 11.0	107 ± 2.5
333.0	129 ± 5.5	112 ± 17.3	147 ± 1.7	181 ± 6.7	97 ± 3.5
1000.0	134 ± 6.0	104 ± 7.2	110 ± 3.3	173 ± 11.9	104 ± 8.5
3333.0	107 ± 11.9	104 ± 6.7	105 ± 5.5	178 ± 10.7	103 ± 6.6
10000.0	93 ± 14.9 ^s	54 ± 4.7 ^s	88 ± 8.5 ^s	112 ± 1.7 ^s	80 ± 5.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					635 ± 19.3
Positive Control ³			577 ± 7.1		
Positive Control ⁵				637 ± 12.2	
Positive Control ⁷	570 ± 29.4	515 ± 47.8			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	133 ± 4.3
100.0	149 ± 4.1
333.0	150 ± 11.8
1000.0	146 ± 3.6
3333.0	149 ± 11.2
10000.0	99 ± 10.3 ^s
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 ± 1.3	11 ± 0.9	25 ± 4.1	22 ± 2.6	19 ± 2.8
100.0	21 ± 1.5	20 ± 3.1	19 ± 3.0	22 ± 3.8	22 ± 2.7
333.0	21 ± 3.2	19 ± 0.7	18 ± 1.8	25 ± 0.7	25 ± 1.8
1000.0	18 ± 0.9	17 ± 1.5	25 ± 3.6	26 ± 3.9	27 ± 1.5
3333.0	27 ± 0.9	20 ± 2.3	15 ± 1.7	26 ± 5.0	23 ± 4.1
10000.0	14 ± 0.0 ^s	12 ± 3.4 ^s	8 ± 1.2 ^s	15 ± 0.3 ^s	14 ± 2.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					643 ± 18.8
Positive Control ³			635 ± 18.2		
Positive Control ⁸	339 ± 26.2	343 ± 14.0			
Positive Control ⁵				459 ± 9.9	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	30 ± 1.5
100.0	26 ± 0.3
333.0	26 ± 3.4
1000.0	25 ± 5.8
3333.0	27 ± 5.2
10000.0	18 ± 3.8 ^s
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
- s: Slight Toxicity

** END OF REPORT **