

Experiment Number: **A65536**

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

G06: Ames Summary Data

Test Compound: **1-Propyne**

CAS Number: **74-99-7**

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

Time Report Requested: **13:19:26**

NTP Study Number:

A65536

Study Result:

Equivocal

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Test Compound: 1-Propyne

CAS Number: 74-99-7

Date Report Requested: 09/17/2018

Time Report Requested: 13:19:26

Strain: TA100

Dose (mL/Chamber)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	108 ± 11.3	102 ± 9.0	129 ± 8.0	101 ± 5.4	133 ± 2.3
0.6	96 ± 6.8	108 ± 11.0	127 ± 1.9	98 ± 10.4	130 ± 3.5
1.2	101 ± 1.7	115 ± 4.9	128 ± 4.7	99 ± 3.2	136 ± 7.8
2.3	93 ± 6.8	117 ± 4.3	120 ± 6.9	111 ± 1.5	120 ± 6.3
3.5	104 ± 3.5	109 ± 6.4	114 ± 3.5	102 ± 8.6	102 ± 6.7
4.7	106 ± 9.5	99 ± 6.4	112 ± 3.0	99 ± 5.5	112 ± 6.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1081 ± 26.2
Positive Control ³			628 ± 36.7		
Positive Control ⁴				650 ± 14.1	
Positive Control ⁵	846 ± 21.7	884 ± 22.8			

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Strain: TA100

Dose (mL/Chamber)	With 30% Hamster S9
Vehicle Control ¹	98 ± 5.8
0.6	99 ± 2.6
1.2	98 ± 8.2
2.3	112 ± 2.0
3.5	101 ± 10.6
4.7	105 ± 3.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	706 ± 6.2
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA1535

Dose (mL/Chamber)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 1.2	12 ± 2.2	21 ± 1.5	15 ± 1.2	15 ± 2.4
0.6	13 ± 3.2	16 ± 2.2	15 ± 2.6	15 ± 2.6	12 ± 3.5
1.2	12 ± 1.5	15 ± 3.0	19 ± 2.9	10 ± 1.0	14 ± 2.7
2.3	13 ± 0.3	19 ± 2.9	18 ± 3.3	14 ± 2.0	17 ± 2.6
3.5	17 ± 1.2	11 ± 1.3	14 ± 2.7	9 ± 0.6	17 ± 1.5
4.7	11 ± 1.2	10 ± 0.3	15 ± 3.4	7 ± 1.5	18 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					523 ± 12.0
Positive Control ⁵	702 ± 294.0	1234 ± 21.1			
Positive Control ⁴			451 ± 13.3		
Positive Control ⁶				101 ± 8.6	

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Date Report Requested: 09/17/2018
Time Report Requested: 13:19:26

Strain: TA1535

Dose (mL/Chamber)	With 30% Hamster S9
Vehicle Control ¹	17 ± 2.6
0.6	21 ± 2.9
1.2	21 ± 3.2
2.3	16 ± 2.7
3.5	11 ± 3.8
4.7	14 ± 3.2
Trial Summary	Negative
Positive Control ³	
Positive Control ⁵	
Positive Control ⁴	265 ± 10.5
Positive Control ⁶	

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Strain: TA1537			
Dose (mL/Chamber)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.7	23 ± 2.0	21 ± 1.7
0.2	12 ± 1.5	27 ± 2.6	30 ± 2.3
0.5	14 ± 0.3	25 ± 3.3	27 ± 3.5
0.7	13 ± 4.8	36 ± 1.5	28 ± 3.5
0.9	10 ± 0.3	32 ± 3.3	28 ± 2.2
1.2	10 ± 2.0	36 ± 2.0	28 ± 0.9
Trial Summary	Negative	Negative	Negative
Positive Control ³			82 ± 7.0
Positive Control ⁴		55 ± 3.3	
Positive Control ⁷	70 ± 9.1		

Experiment Number: A65536

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Strain: TA97

Dose (mL/Chamber)	Without S9	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control ¹	95 ± 5.0	93 ± 3.1	104 ± 4.4	100 ± 5.8	114 ± 3.0
0.2		95 ± 3.0	99 ± 1.8	103 ± 3.8	107 ± 4.4
0.5			110 ± 6.9	123 ± 0.7	132 ± 1.9
0.6	98 ± 4.6	103 ± 4.7			
0.7			116 ± 4.7	132 ± 2.9	134 ± 1.7
0.9			125 ± 3.2	126 ± 4.6	133 ± 1.3
1.2	118 ± 10.3	132 ± 14.6	137 ± 3.6	135 ± 2.1	139 ± 0.9
1.8		92 ± 3.0			
2.3	106 ± 8.1	106 ± 4.3			
3.5	107 ± 4.2				
4.7	124 ± 8.0				
Trial Summary	Equivocal	Equivocal	Equivocal	Equivocal	Equivocal
Positive Control ²					
Positive Control ³				1139 ± 34.4	928 ± 59.2
Positive Control ⁸					
Positive Control ⁴					
Positive Control ⁹					
Positive Control ⁷	645 ± 9.8	638 ± 13.4	569 ± 10.2		

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Strain: TA97

Dose (mL/Chamber)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	118 ± 6.3	165 ± 8.2	139 ± 9.3	119 ± 1.2	124 ± 3.5
0.2		142 ± 11.9	343 ± 28.3	105 ± 1.2	125 ± 6.4
0.5			301 ± 10.3	105 ± 1.5	143 ± 3.5
0.6	115 ± 20.2	197 ± 24.6			
0.7			291 ± 7.0	111 ± 5.2	147 ± 5.5
0.9			323 ± 17.8	124 ± 2.3	165 ± 4.6
1.2	170 ± 9.1	216 ± 20.6	337 ± 25.7	141 ± 2.5	151 ± 6.5
1.8		119 ± 10.1			
2.3	124 ± 15.4	134 ± 11.8			
3.5	129 ± 12.4				
4.7	84 ± 10.7				
Trial Summary	Equivocal	Equivocal	Equivocal	Equivocal	Equivocal
Positive Control ²				1126 ± 82.3	1026 ± 26.3
Positive Control ³					
Positive Control ⁸		669 ± 29.1			
Positive Control ⁴	644 ± 13.3		799 ± 2.9		
Positive Control ⁹					
Positive Control ⁷					

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Strain: TA97

Dose (mL/Chamber)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	88 ± 3.6	117 ± 2.3	164 ± 14.0
0.2		132 ± 7.9	223 ± 29.4
0.5			304 ± 6.3
0.6	130 ± 13.6	280 ± 9.2	
0.7			344 ± 24.5
0.9			313 ± 32.9
1.2	211 ± 5.1	316 ± 17.9	309 ± 52.0
1.8		137 ± 14.4	
2.3	155 ± 8.5	123 ± 9.8	
3.5	132 ± 1.2		
4.7	119 ± 11.1		
Trial Summary	Equivocal	Positive	Equivocal
Positive Control ²			
Positive Control ³	709 ± 61.4		984 ± 22.6
Positive Control ⁸			
Positive Control ⁴			
Positive Control ⁹		709 ± 9.3	
Positive Control ⁷			

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Strain: TA98

Dose (mL/Chamber)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 1.9	26 ± 1.7	16 ± 1.2	19 ± 2.6	23 ± 3.7
0.6	15 ± 3.5	21 ± 4.9	15 ± 2.4	19 ± 2.3	17 ± 2.3
1.2	17 ± 0.9	23 ± 3.1	14 ± 1.2	22 ± 2.9	18 ± 1.7
2.3	15 ± 1.2	20 ± 0.7	10 ± 0.3	14 ± 1.8	20 ± 4.1
3.5	11 ± 1.5	22 ± 5.0	12 ± 3.1	15 ± 2.5	23 ± 2.3
4.7	6 ± 1.0	16 ± 3.3	17 ± 3.8	11 ± 2.8	21 ± 3.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					870 ± 49.4
Positive Control ³			535 ± 10.3		
Positive Control ¹⁰	255 ± 23.4	600 ± 14.3			
Positive Control ⁴				458 ± 23.7	

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Strain: TA98

Dose (mL/Chamber)	With 30% Hamster S9
Vehicle Control ¹	23 ± 0.3
0.6	21 ± 0.6
1.2	23 ± 1.5
2.3	21 ± 1.2
3.5	18 ± 3.4
4.7	13 ± 2.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	545 ± 15.6
Positive Control ¹⁰	
Positive Control ⁴	

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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: Solvent
- 2: 1.0 mL/Chamber 2-Aminoanthracene
- 3: 2.0 mL/Chamber 2-Aminoanthracene
- 4: 5.0 mL/Chamber 2-Aminoanthracene
- 5: 5.0 mL/Chamber Sodium Azide
- 6: 10.0 mL/Chamber 2-Aminoanthracene
- 7: 50.0 mL/Chamber 9-Aminoacridine
- 8: 4.0 mL/Chamber 2-Aminoanthracene
- 9: 50.0 mL/Chamber 2-Aminoanthracene
- 10: 2.5 mL/Chamber 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****