

Experiment Number: **A94453**

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

**G06: Ames Summary Data**

Test Compound: **1-n-Butene**

CAS Number: **25167-67-3**

Date Report Requested: **09/15/2018**

Time Report Requested: **13:03:41**

**NTP Study Number:**

A94453

**Study Result:**

Negative

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Strain: TA100

Dose (mL/Chamber)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	118 ± 4.3	124 ± 8.7	126 ± 4.6	110 ± 2.9	132 ± 2.9
0.6	102 ± 7.9	124 ± 1.7	127 ± 4.2	110 ± 5.0	132 ± 2.4
1.2	87 ± 7.6	126 ± 8.0	127 ± 7.0	110 ± 3.2	126 ± 1.3
2.3	82 ± 3.8	119 ± 6.1	126 ± 1.7	108 ± 0.9	123 ± 3.6
3.5	96 ± 3.6	129 ± 7.1	117 ± 6.7	102 ± 5.4	125 ± 3.2
4.7	93 ± 2.9	105 ± 2.6	108 ± 2.3	99 ± 5.5	119 ± 4.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					715 ± 14.8
Positive Control <sup>3</sup>			659 ± 19.9		
Positive Control <sup>4</sup>				676 ± 31.9	
Positive Control <sup>5</sup>	831 ± 23.3	847 ± 21.5			

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Strain: TA100

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Dose (mL/Chamber)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	131 ± 12.1
0.6	124 ± 6.5
1.2	96 ± 7.3
2.3	108 ± 14.7
3.5	107 ± 10.8
4.7	99 ± 7.4
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	704 ± 8.8
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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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 <sup>1</sup>	7 ± 1.5	12 ± 1.7	12 ± 1.5	13 ± 3.5	12 ± 0.3
0.6	7 ± 2.4	14 ± 1.0	14 ± 0.3	12 ± 0.3	14 ± 0.7
1.2	9 ± 2.1	11 ± 0.7	14 ± 1.0	8 ± 3.1	13 ± 0.9
2.3	9 ± 0.7	17 ± 4.2	13 ± 1.2	11 ± 1.9	11 ± 0.9
3.5	9 ± 1.7	16 ± 1.7	10 ± 0.7	10 ± 0.9	9 ± 0.9
4.7	6 ± 2.9	14 ± 3.7	13 ± 2.3	11 ± 1.0	10 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					102 ± 5.3
Positive Control <sup>5</sup>	841 ± 16.3	892 ± 15.9			
Positive Control <sup>4</sup>			89 ± 7.4		
Positive Control <sup>6</sup>				93 ± 11.0	

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Strain: TA1535

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Dose (mL/Chamber)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 0.3
0.6	11 ± 1.3
1.2	11 ± 3.1
2.3	11 ± 2.0
3.5	10 ± 2.4
4.7	10 ± 1.0
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	
Positive Control <sup>4</sup>	122 ± 3.8
Positive Control <sup>6</sup>	

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Strain: TA97

Dose (mL/Chamber)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	106 ± 4.8	123 ± 11.3	123 ± 5.6	141 ± 9.7	120 ± 6.4
0.6	117 ± 9.2	128 ± 4.9	125 ± 1.7	179 ± 6.1	128 ± 4.9
1.2	101 ± 7.7	133 ± 6.4	126 ± 9.5	115 ± 13.8	143 ± 2.6
2.3	117 ± 5.0	135 ± 14.7	126 ± 5.8	173 ± 6.7	143 ± 19.9
3.5	119 ± 8.2	130 ± 10.8	129 ± 8.4	138 ± 6.3	146 ± 5.4
4.7	109 ± 14.6	113 ± 3.5	126 ± 12.5	167 ± 3.8	119 ± 6.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					726 ± 16.3
Positive Control <sup>3</sup>			640 ± 9.8		
Positive Control <sup>4</sup>				571 ± 11.9	
Positive Control <sup>7</sup>	621 ± 7.3	539 ± 17.0			

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Strain: TA97

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Dose (mL/Chamber)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	132 ± 32.2
0.6	138 ± 4.6
1.2	115 ± 3.2
2.3	136 ± 11.4
3.5	95 ± 6.2
4.7	135 ± 5.8
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	617 ± 4.9
Positive Control <sup>4</sup>	
Positive Control <sup>7</sup>	

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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 <sup>1</sup>	25 ± 4.1	15 ± 2.0	18 ± 2.1	28 ± 6.4	9 ± 0.9
0.6	22 ± 1.9	17 ± 3.8	14 ± 2.3	24 ± 1.5	11 ± 0.7
1.2	21 ± 3.7	21 ± 1.5	17 ± 1.7	22 ± 2.3	14 ± 2.6
2.3	17 ± 3.6	17 ± 2.3	12 ± 0.7	20 ± 0.7	12 ± 1.7
3.5	14 ± 0.7	18 ± 3.5	11 ± 0.6	23 ± 2.3	15 ± 2.6
4.7	17 ± 2.1	17 ± 1.7	12 ± 1.7	18 ± 1.8	9 ± 1.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					459 ± 25.7
Positive Control <sup>3</sup>			370 ± 12.7		
Positive Control <sup>8</sup>	518 ± 40.9	435 ± 20.2			
Positive Control <sup>4</sup>				560 ± 21.9	



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Strain: TA98

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Dose (mL/Chamber)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	24 ± 0.0
0.6	23 ± 1.5
1.2	24 ± 3.0
2.3	19 ± 0.6
3.5	24 ± 2.6
4.7	21 ± 1.9
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	632 ± 23.6
Positive Control <sup>8</sup>	
Positive Control <sup>4</sup>	

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### **LEGEND**

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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: 2.5 mL/Chamber 4-Nitro-O-Phenylenediamine

**\*\* END OF REPORT \*\***