

Experiment Number: **295184**

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

G06: Ames Summary Data

Test Compound: **Isobutene**

CAS Number: **115-11-7**

Date Report Requested: **09/11/2018**

Time Report Requested: **21:22:24**

NTP Study Number:

295184

Study Result:

Negative

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Date Report Requested: 09/11/2018

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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	110 ± 7.5	143 ± 14.3	142 ± 11.0	141 ± 10.4	131 ± 2.2
0.001	98 ± 1.9	152 ± 5.3	131 ± 12.9	147 ± 12.5	132 ± 13.5
0.002	100 ± 4.0	151 ± 11.0	142 ± 1.9	124 ± 9.1	128 ± 11.6
0.007	101 ± 4.9	135 ± 2.6	146 ± 5.5	134 ± 4.3	130 ± 3.2
0.013	81 ± 1.9	124 ± 11.9	117 ± 10.6	95 ± 0.9	112 ± 11.8
0.027	68 ± 11.7	84 ± 1.2	89 ± 10.4	83 ± 7.2	127 ± 17.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					332 ± 15.3
Positive Control ³	432 ± 11.8	383 ± 12.4			
Positive Control ⁴			914 ± 55.4		
Positive Control ⁵					
Positive Control ⁶				583 ± 11.5	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	127 ± 4.7
0.001	121 ± 8.0
0.002	114 ± 8.6
0.007	117 ± 7.2
0.013	87 ± 4.7
0.027	79 ± 5.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	859 ± 31.9
Positive Control ⁶	

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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	10 ± 2.6	8 ± 1.5	15 ± 1.2	14 ± 3.2	12 ± 0.9
0.001	11 ± 1.2	10 ± 1.2	11 ± 1.5	20 ± 2.7	13 ± 1.3
0.002	15 ± 2.0	14 ± 2.3	13 ± 1.9	20 ± 3.9	10 ± 2.0
0.007	13 ± 1.0	11 ± 0.6	12 ± 3.2	14 ± 3.7	11 ± 1.3
0.013	10 ± 1.8	14 ± 0.9	13 ± 3.0	16 ± 1.9	13 ± 1.7
0.027	9 ± 0.9	13 ± 2.0	13 ± 2.1	13 ± 2.9	13 ± 3.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					63 ± 4.8
Positive Control ³	359 ± 14.5	340 ± 8.8			
Positive Control ⁵					
Positive Control ⁶			164 ± 9.6	121 ± 11.6	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	22 ± 4.2
0.001	15 ± 2.1
0.002	16 ± 0.9
0.007	16 ± 2.0
0.013	16 ± 1.3
0.027	16 ± 2.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	129 ± 5.7
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	153 ± 7.3	153 ± 3.3	155 ± 5.2	212 ± 5.0	134 ± 5.5
0.001	142 ± 3.2	140 ± 7.1	168 ± 8.8	196 ± 1.5	136 ± 9.0
0.002	139 ± 2.7	139 ± 6.8	170 ± 7.6	205 ± 6.1	157 ± 16.1
0.007	135 ± 9.5	140 ± 7.5	162 ± 2.6	225 ± 15.9	135 ± 4.3
0.013	134 ± 4.3	155 ± 7.6	147 ± 8.0	209 ± 16.8	137 ± 8.0
0.027	121 ± 1.2	161 ± 6.6	139 ± 8.7	189 ± 13.5	125 ± 4.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					2035 ± 28.9
Positive Control ⁶			942 ± 19.7	759 ± 44.8	
Positive Control ⁷	583 ± 35.8	432 ± 38.4			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	185 ± 13.0
0.001	195 ± 13.3
0.002	194 ± 11.6
0.007	194 ± 3.0
0.013	175 ± 5.5
0.027	149 ± 2.0
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	1505 ± 74.3
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	17 ± 2.2	15 ± 2.2	26 ± 4.6	26 ± 5.5	24 ± 2.9
0.001	19 ± 1.5	13 ± 2.3	17 ± 0.6	25 ± 1.2	19 ± 1.0
0.002	17 ± 1.5	14 ± 0.7	17 ± 2.7	31 ± 2.9	22 ± 1.9
0.007	15 ± 0.7	14 ± 0.9	20 ± 2.0	29 ± 4.6	26 ± 3.8
0.013	18 ± 3.9	13 ± 0.6	27 ± 3.6	19 ± 4.1	19 ± 2.4
0.027	11 ± 1.5	10 ± 1.0	23 ± 0.3	15 ± 1.5	18 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			314 ± 22.1		265 ± 8.0
Positive Control ⁵				321 ± 16.7	
Positive Control ⁸	377 ± 14.1	316 ± 11.1			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	21 ± 1.5
0.001	23 ± 2.9
0.002	26 ± 3.8
0.007	20 ± 1.2
0.013	19 ± 2.7
0.027	14 ± 1.5
 Trial Summary	 Negative
 Positive Control ²	
Positive Control ⁵	979 ± 2.0
Positive Control ⁸	

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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: Air
- 2: 0.4 ug/Plate 2-Aminoanthracene
- 3: 0.5 ug/Plate Sodium Azide
- 4: 0.75 ug/Plate 2-Aminoanthracene
- 5: 1.0 ug/Plate 2-Aminoanthracene
- 6: 2.0 ug/Plate 2-Aminoanthracene
- 7: 24.0 ug/Plate 9-Aminoacridine
- 8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****