

Experiment Number: 484148

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

G06: Ames Summary Data

Test Compound: **Isobutyl alcohol**

CAS Number: **78-83-1**

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

Time Report Requested: **17:28:31**

NTP Study Number:

484148

Study Result:

Negative

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Test Compound: Isobutyl alcohol

CAS Number: 78-83-1

Date Report Requested: 09/11/2018

Time Report Requested: 17:28:31

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	146 ± 10.0	158 ± 3.5	135 ± 2.6	145 ± 14.7	140 ± 15.5
100.0	153 ± 5.8	145 ± 2.1	121 ± 4.7	163 ± 5.8	100 ± 5.2
333.0	162 ± 7.4	113 ± 2.4	96 ± 3.5	167 ± 8.0	133 ± 8.0
1000.0	146 ± 4.4	149 ± 6.1	93 ± 5.8	162 ± 11.0	152 ± 14.8
3333.0	147 ± 7.5	136 ± 11.4	114 ± 7.7	150 ± 5.3	121 ± 9.6
10000.0	137 ± 7.1	3 ± 2.0 ^s	98 ± 16.5	159 ± 2.0	94 ± 11.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					971 ± 52.8
Positive Control ³			694 ± 45.7		
Positive Control ⁴	604 ± 4.0	587 ± 8.1			
Positive Control ⁵				478 ± 14.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	167 ± 6.8
100.0	157 ± 8.1
333.0	164 ± 3.3
1000.0	161 ± 14.5
3333.0	157 ± 10.9
10000.0	155 ± 9.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	529 ± 14.2
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	21 ± 1.5	27 ± 2.4	11 ± 0.0	16 ± 0.3	11 ± 1.9
100.0	20 ± 1.0	27 ± 2.1	9 ± 2.1	9 ± 1.8	9 ± 1.5
333.0	16 ± 0.7	29 ± 3.3	10 ± 1.8	13 ± 0.7	10 ± 0.7
1000.0	16 ± 2.7	26 ± 0.7	10 ± 2.0	12 ± 0.3	13 ± 2.3
3333.0	20 ± 1.5	21 ± 3.2	8 ± 1.2	10 ± 1.2	10 ± 1.2
10000.0	21 ± 2.3	6 ± 3.5 ^s	10 ± 1.8	8 ± 1.5	10 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					335 ± 22.5
Positive Control ⁴	423 ± 19.6	415 ± 10.9			
Positive Control ⁶			224 ± 25.6		
Positive Control ⁷				224 ± 10.2	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 2.3
100.0	10 ± 0.3
333.0	8 ± 0.9
1000.0	8 ± 0.6
3333.0	8 ± 0.9
10000.0	6 ± 0.7
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁶	375 ± 13.0
Positive Control ⁷	

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Test Type: Genetic Toxicology - Bacterial
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Test Compound: Isobutyl alcohol

CAS Number: 78-83-1

Date Report Requested: 09/11/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	9 ± 4.2	9 ± 0.9	9 ± 1.3
100.0	8 ± 1.8	6 ± 0.9	6 ± 0.6
333.0	6 ± 0.7	9 ± 2.7	7 ± 1.2
1000.0	8 ± 0.6	7 ± 0.6	9 ± 1.2
3333.0	7 ± 0.3	7 ± 1.2	7 ± 1.5
10000.0	5 ± 0.9	5 ± 0.3	8 ± 0.6
Trial Summary	Negative	Negative	Negative
Positive Control ³			40 ± 1.7
Positive Control ⁶		39 ± 0.6	
Positive Control ⁸	425 ± 29.5		

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Date Report Requested: 09/11/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9
Vehicle Control ¹	147 ± 20.8	156 ± 2.9	194 ± 12.1	183 ± 9.9	146 ± 2.6
100.0	166 ± 6.2	136 ± 7.0	201 ± 4.0	184 ± 7.5	156 ± 2.7
333.0	162 ± 7.3	172 ± 8.5	206 ± 3.7	178 ± 11.9	158 ± 9.0
1000.0	157 ± 3.1	172 ± 6.3	209 ± 5.2	198 ± 5.3	185 ± 1.5
3333.0	167 ± 2.6	190 ± 8.3	195 ± 4.9	215 ± 14.5	167 ± 4.8
10000.0	160 ± 6.7	0 ± 0.0 ^s	183 ± 2.0	185 ± 8.4	152 ± 6.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					874 ± 43.7
Positive Control ³			403 ± 23.3		
Positive Control ⁶				388 ± 19.2	
Positive Control ⁸	911 ± 28.7	723 ± 24.4			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	141 ± 7.5	170 ± 11.2	165 ± 11.6	168 ± 15.7
100.0	146 ± 11.3	162 ± 5.0	155 ± 23.9	198 ± 5.0
333.0	156 ± 4.7	176 ± 13.3	192 ± 5.2	189 ± 10.8
1000.0	162 ± 1.2	194 ± 11.9	214 ± 6.4	213 ± 6.7
3333.0	154 ± 2.1	212 ± 7.5	292 ± 26.8	199 ± 12.5
10000.0	166 ± 10.3	185 ± 8.1	220 ± 7.0	203 ± 7.4
Trial Summary	Negative	Negative	Equivocal	Negative
Positive Control ²	305 ± 23.5	570 ± 44.9		
Positive Control ³			369 ± 45.8	301 ± 23.0
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	18 ± 2.0	20 ± 0.6	32 ± 1.7	34 ± 1.2	28 ± 1.5
100.0	20 ± 1.2	19 ± 3.1	28 ± 3.9	31 ± 0.0	33 ± 3.0
333.0	17 ± 1.5	21 ± 3.2	29 ± 1.5	26 ± 0.7	30 ± 5.4
1000.0	16 ± 2.3	13 ± 1.8	30 ± 2.8	35 ± 3.3	26 ± 3.0
3333.0	22 ± 2.9	16 ± 3.5	28 ± 2.6	26 ± 1.2	26 ± 2.6
10000.0	16 ± 0.9	3 ± 3.0 ^s	28 ± 4.4	30 ± 3.2	29 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					699 ± 15.0
Positive Control ³			467 ± 38.4	160 ± 2.7	
Positive Control ⁹	538 ± 10.7	627 ± 21.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	37 ± 1.2
100.0	34 ± 4.0
333.0	32 ± 4.0
1000.0	32 ± 5.5
3333.0	34 ± 2.0
10000.0	29 ± 4.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	373 ± 19.3
Positive Control ⁹	

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.0 ug/Plate 2-Aminoanthracene

6: 2.5 ug/Plate 2-Aminoanthracene

7: 5.0 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 ****