

Experiment Number: 459929

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Isobutyl acrylate

CAS Number: 106-63-8

Date Report Requested: 09/11/2018

Time Report Requested: 09:37:25

NTP Study Number:

459929

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	121 ± 7.0	98 ± 5.9	167 ± 10.2	140 ± 7.6	169 ± 12.3
33.0			149 ± 3.8		117 ± 7.7
100.0	122 ± 6.2	87 ± 5.3	132 ± 2.2	142 ± 6.9	133 ± 1.2
333.0	119 ± 1.5	96 ± 2.8	147 ± 2.6	118 ± 10.4	147 ± 2.3
1000.0	91 ± 5.2	82 ± 2.2	145 ± 3.3	117 ± 2.7	144 ± 11.4
3333.0	69 ± 1.2	74 ± 2.9	136 ± 9.3	118 ± 3.0	141 ± 4.2
10000.0	0 ± 0.0	91 ± 1.2		118 ± 9.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			2826 ± 91.3	2501 ± 160.8	2132 ± 77.1
Positive Control ³	1363 ± 82.4	1423 ± 157.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	120 ± 9.7
33.0	
100.0	119 ± 0.3
333.0	112 ± 7.3
1000.0	97 ± 0.9
3333.0	94 ± 8.5
10000.0	94 ± 11.1
Trial Summary	Negative
Positive Control ²	1869 ± 161.0
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 1.7	8 ± 0.9	12 ± 0.9	6 ± 1.9	20 ± 3.8
33.0			18 ± 1.2		22 ± 0.3
100.0	21 ± 3.2	4 ± 0.7	17 ± 0.9	7 ± 0.0	17 ± 0.9
333.0	16 ± 1.3	6 ± 1.8	17 ± 1.9	4 ± 0.3	17 ± 0.7
1000.0	15 ± 0.9	2 ± 1.2	15 ± 0.6	4 ± 0.7	17 ± 1.2
3333.0	15 ± 1.5	1 ± 0.3	14 ± 1.9	5 ± 1.2	17 ± 1.9
10000.0	7 ± 1.5	0 ± 0.0		3 ± 0.9	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			454 ± 55.9		570 ± 55.9
Positive Control ⁴				37 ± 8.2	
Positive Control ³	1787 ± 100.6	34 ± 3.2			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 0.7
33.0	
100.0	7 ± 1.5
333.0	5 ± 0.9
1000.0	4 ± 1.5
3333.0	5 ± 0.3
10000.0	2 ± 1.0
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	41 ± 9.0
Positive Control ³	

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Test Compound: Isobutyl acrylate

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Date Report Requested: 09/11/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	11 ± 0.7	7 ± 1.0	22 ± 2.0	7 ± 1.0	19 ± 0.9
33.0			33 ± 0.9		
100.0	8 ± 1.5	5 ± 1.2	40 ± 1.2	6 ± 0.7	21 ± 2.8
333.0	8 ± 0.6	4 ± 1.2	34 ± 6.5	5 ± 1.0	15 ± 0.7
1000.0	7 ± 2.5	6 ± 1.5	22 ± 1.2	6 ± 0.7	13 ± 3.3
3333.0	10 ± 0.9	3 ± 0.9	27 ± 0.9	6 ± 0.3	15 ± 1.2
10000.0	Toxic	2 ± 1.0		3 ± 0.7	11 ± 1.0
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²			89 ± 2.0		
Positive Control ⁴				131 ± 34.3	351 ± 49.3
Positive Control ⁵	398 ± 172.5	91 ± 4.1			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	22 ± 1.2	9 ± 0.3
33.0	18 ± 0.9	
100.0	15 ± 1.3	8 ± 1.5
333.0	18 ± 3.3	6 ± 0.3
1000.0	15 ± 2.3	7 ± 0.9
3333.0	20 ± 2.2	4 ± 0.3
10000.0		3 ± 1.2
Trial Summary	Negative	Negative
Positive Control ²	399 ± 43.7	
Positive Control ⁴		128 ± 23.4
Positive Control ⁵		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	36 ± 1.5	11 ± 1.5	45 ± 0.9	17 ± 1.9	44 ± 3.2
33.0			42 ± 2.0		39 ± 3.5
100.0	36 ± 1.8	12 ± 1.5	37 ± 2.0	20 ± 4.7	38 ± 2.7
333.0	36 ± 2.2	13 ± 5.7	40 ± 1.3	15 ± 1.2	39 ± 3.2
1000.0	28 ± 1.9	11 ± 0.9	42 ± 3.2	15 ± 3.1	46 ± 1.8
3333.0	24 ± 4.5	10 ± 0.6	42 ± 0.9	12 ± 0.6	42 ± 2.0
10000.0	34 ± 2.0	9 ± 0.9		9 ± 0.9	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1996 ± 10.2	1565 ± 202.9	1347 ± 127.2
Positive Control ⁶	266 ± 69.0	253 ± 32.0			

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Test Compound: Isobutyl acrylate
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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	18 ± 1.5
33.0	
100.0	14 ± 0.6
333.0	12 ± 0.9
1000.0	13 ± 0.7
3333.0	9 ± 1.9
10000.0	8 ± 1.3
Trial Summary	Negative
Positive Control ²	1442 ± 219.6
Positive Control ⁶	

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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: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****