

Experiment Number: 371185

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

G06: Ames Summary Data

Test Compound: **Isopropyl methacrylate**

CAS Number: **4655-34-9**

Date Report Requested: **09/14/2018**

Time Report Requested: **02:29:57**

NTP Study Number:

371185

Study Result:

Negative

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**Test Compound: Isopropyl methacrylate
CAS Number: 4655-34-9

Date Report Requested: 09/14/2018

Time Report Requested: 02:29:57

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	156 ± 8.7	166 ± 2.3	198 ± 20.5	193 ± 15.0	235 ± 12.5
100.0	136 ± 21.1	171 ± 15.5	223 ± 8.0	184 ± 12.6	192 ± 8.7
333.0	175 ± 6.1	189 ± 2.9	202 ± 10.4	143 ± 5.0	207 ± 17.3
1000.0	163 ± 5.5	117 ± 4.1	205 ± 11.6	159 ± 37.0	195 ± 18.8
3333.0	172 ± 3.2	147 ± 10.6	138 ± 12.7	187 ± 11.6	153 ± 7.3
10000.0	166 ± 4.3	138 ± 7.5	189 ± 12.1	163 ± 18.4	199 ± 19.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1858 ± 131.6	2114 ± 55.1	835 ± 146.6
Positive Control ³	479 ± 14.1	358 ± 23.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	238 ± 19.5
100.0	198 ± 12.0
333.0	172 ± 10.3
1000.0	150 ± 8.9
3333.0	143 ± 3.8
10000.0	163 ± 25.2
Trial Summary	Negative
Positive Control ²	1321 ± 165.8
Positive Control ³	

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Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	22 ± 2.9	30 ± 2.9	28 ± 5.4	25 ± 4.4	19 ± 3.4
33.0		26 ± 1.5	28 ± 3.2		
100.0	22 ± 2.1	27 ± 2.5	37 ± 5.7	19 ± 2.2	24 ± 2.7
333.0	17 ± 1.8	25 ± 2.5	34 ± 3.8	24 ± 3.6	26 ± 2.7
1000.0	11 ± 6.6	11 ± 4.7	26 ± 3.0	23 ± 2.1	25 ± 0.9
3333.0	Toxic	Toxic	Toxic	22 ± 2.1	28 ± 3.1
10000.0	7 ± 1.2			23 ± 2.9	23 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				997 ± 51.3	537 ± 42.3
Positive Control ³	1127 ± 2.1	1114 ± 20.8	1837 ± 143.4		

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	24 ± 3.0	23 ± 4.0
33.0		
100.0	30 ± 2.6	14 ± 3.5
333.0	36 ± 2.0	19 ± 0.9
1000.0	33 ± 1.3	29 ± 2.6
3333.0	22 ± 3.2	25 ± 2.4
10000.0	20 ± 1.2	32 ± 3.9
Trial Summary	Negative	Negative
Positive Control ⁴	529 ± 56.4	439 ± 14.4
Positive Control ³		

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Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	6 ± 1.5	9 ± 2.7	14 ± 1.2	9 ± 1.2	26 ± 3.8
10.0		8 ± 2.4	11 ± 3.5		
33.0		12 ± 1.8	13 ± 2.8		
100.0	6 ± 3.0	11 ± 1.2	14 ± 0.3	10 ± 1.5	22 ± 3.8
333.0	9 ± 1.0	7 ± 0.9	12 ± 1.8	10 ± 1.2	17 ± 3.5
1000.0	1 ± 0.0	Toxic	Toxic	12 ± 1.2	25 ± 5.8
3333.0	Toxic			8 ± 0.3	14 ± 1.3
10000.0	0 ± 0.0			11 ± 2.0	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				114 ± 11.0	196 ± 25.8
Positive Control ⁵	939 ± 81.5	730 ± 56.9	1000 ± 124.5		

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.5	29 ± 0.0
10.0		
33.0		
100.0	11 ± 1.5	25 ± 2.6
333.0	12 ± 3.4	25 ± 2.0
1000.0	10 ± 1.5	25 ± 3.3
3333.0	10 ± 1.5	12 ± 3.2
10000.0	Toxic	Toxic
Trial Summary	Negative	Negative
Positive Control ⁴	380 ± 34.1	413 ± 18.4
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	33 ± 5.6	15 ± 2.0	50 ± 4.0	21 ± 2.4	45 ± 3.5
100.0	27 ± 2.6	12 ± 1.9	42 ± 2.7	25 ± 4.7	42 ± 4.6
333.0	29 ± 1.5	11 ± 2.6	43 ± 3.7	24 ± 2.6	47 ± 7.8
1000.0	27 ± 2.0	12 ± 1.0	43 ± 3.8	26 ± 2.7	41 ± 3.8
3333.0	17 ± 2.8	11 ± 2.1	38 ± 2.0	21 ± 2.3	43 ± 1.5
10000.0	28 ± 2.3	10 ± 1.8	39 ± 1.9	16 ± 5.0	42 ± 3.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1410 ± 181.0	2119 ± 276.2	703 ± 68.6
Positive Control ⁶	362 ± 8.4	430 ± 77.1			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	33 ± 1.9
100.0	25 ± 4.5
333.0	24 ± 1.2
1000.0	26 ± 5.1
3333.0	20 ± 1.5
10000.0	21 ± 0.3
Trial Summary	Negative
Positive Control ²	924 ± 65.8
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 ****