

Experiment Number: 060277

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Butyl methacrylate

CAS Number: 97-88-1

Date Report Requested: 09/10/2018

Time Report Requested: 17:34:58

NTP Study Number:

060277

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	113 ± 11.9	89 ± 8.6	145 ± 16.9	146 ± 3.7	223 ± 15.2
100.0	109 ± 15.8	89 ± 6.5	135 ± 8.2	136 ± 11.6	161 ± 9.0
333.0	98 ± 5.3	94 ± 4.1	136 ± 3.6	91 ± 6.2	162 ± 28.0
1000.0	88 ± 8.7	91 ± 2.7	143 ± 3.5	93 ± 11.1	204 ± 9.1
3333.0	93 ± 10.9	89 ± 1.9	149 ± 6.8	98 ± 3.2	224 ± 5.9
10000.0	96 ± 6.0	90 ± 0.7	144 ± 2.0	91 ± 2.3	241 ± 5.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			938 ± 60.6	1104 ± 12.3	1397 ± 68.6
Positive Control ³	1266 ± 8.3	1326 ± 52.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	141 ± 9.9
100.0	129 ± 9.1
333.0	124 ± 2.9
1000.0	112 ± 13.3
3333.0	82 ± 1.9
10000.0	80 ± 3.0
Trial Summary	Negative
Positive Control ²	1309 ± 47.1
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	7 ± 1.0	3 ± 0.6	12 ± 3.0	16 ± 1.7	11 ± 2.2
100.0	6 ± 0.9	3 ± 0.3	11 ± 1.5	15 ± 2.3	17 ± 2.3
333.0	5 ± 0.6	4 ± 0.7	12 ± 2.9	8 ± 1.0	16 ± 1.0
1000.0	7 ± 2.4	4 ± 1.5	11 ± 1.9	5 ± 0.3	13 ± 1.3
3333.0	7 ± 1.8	2 ± 0.3	14 ± 1.2	5 ± 2.5	9 ± 1.9
10000.0	Toxic	2 ± 0.7	10 ± 1.0	5 ± 1.5	16 ± 4.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			244 ± 14.5	242 ± 24.3	252 ± 9.0
Positive Control ³	1336 ± 37.4	1199 ± 28.6			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	26 ± 0.9
100.0	24 ± 4.4
333.0	17 ± 2.1
1000.0	11 ± 1.5
3333.0	8 ± 1.0
10000.0	10 ± 2.0
Trial Summary	Negative
Positive Control ⁴	243 ± 26.3
Positive Control ³	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.9	7 ± 0.7	10 ± 2.0	11 ± 1.8	13 ± 1.5
1.0	7 ± 0.0	6 ± 1.5			
3.3	7 ± 1.2	9 ± 1.5			
10.0	8 ± 2.2	5 ± 0.7			
33.0	6 ± 1.2	5 ± 1.2			
100.0	5 ± 2.2	5 ± 0.6	12 ± 2.7	11 ± 1.9	10 ± 3.0
333.0			11 ± 1.7	10 ± 0.3	12 ± 1.0
1000.0			6 ± 1.3	11 ± 0.3	11 ± 0.7
3333.0			9 ± 2.1	10 ± 0.7	8 ± 1.9
10000.0			10 ± 0.9	3 ± 0.9	8 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			460 ± 19.1	290 ± 13.7	169 ± 12.7
Positive Control ⁵	117 ± 38.8	199 ± 57.9			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	14 ± 2.3
1.0	
3.3	
10.0	
33.0	
100.0	11 ± 2.4
333.0	12 ± 0.9
1000.0	8 ± 2.0
3333.0	7 ± 1.7
10000.0	7 ± 2.1
Trial Summary	Negative
Positive Control ⁴	270 ± 19.4
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	20 ± 3.1	11 ± 0.3	33 ± 6.0	26 ± 1.8	37 ± 4.9
100.0	22 ± 2.1	12 ± 1.9	37 ± 0.9	25 ± 4.4	47 ± 3.8
333.0	23 ± 4.5	12 ± 1.2	43 ± 3.2	15 ± 2.1	31 ± 2.7
1000.0	29 ± 1.0	10 ± 1.2	45 ± 2.7	20 ± 1.9	34 ± 1.5
3333.0	28 ± 2.6	15 ± 4.1	42 ± 1.5	18 ± 1.9	40 ± 2.1
10000.0	24 ± 3.6	11 ± 0.9	34 ± 2.6	18 ± 0.6	34 ± 7.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			579 ± 15.9	469 ± 20.0	913 ± 43.5
Positive Control ⁶	146 ± 11.6	156 ± 7.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 3.2
100.0	29 ± 1.5
333.0	18 ± 5.5
1000.0	19 ± 1.5
3333.0	16 ± 2.5
10000.0	14 ± 1.0
Trial Summary	Negative
Positive Control ²	630 ± 42.1
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: 95% Ethanol

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 ****