

Experiment Number: 211868

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Isopentane

CAS Number: 78-78-4

Date Report Requested: 09/14/2018

Time Report Requested: 15:06:19

NTP Study Number:

211868

Study Result:

Negative

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Strain: TA100

Dose (mL/Chamber)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	104 ± 12.6	90 ± 6.7	92 ± 4.1	105 ± 7.7	123 ± 11.7
0.05		69 ± 1.3	89 ± 4.8	103 ± 18.7	
0.1		81 ± 4.1	89 ± 4.6	111 ± 1.5	
0.5	135 ± 9.8	83 ± 2.8	84 ± 3.4	87 ± 1.7	156 ± 6.6
1.0	109 ± 14.4	102 ± 3.4	92 ± 8.6	99 ± 3.8	141 ± 7.5
2.0					
2.5	124 ± 19.6				185 ± 14.0
5.0	130 ± 2.3	97 ± 1.3	94 ± 3.8	109 ± 3.0	169 ± 4.6
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					
Positive Control ³				332 ± 4.6	
Positive Control ⁴					628 ± 34.7
Positive Control ⁵	1211 ± 20.8	1204 ± 37.9	519 ± 9.9		

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Strain: TA100

Dose (mL/Chamber)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	111 ± 5.8	94 ± 5.5	121 ± 14.3	101 ± 5.3
0.05	90 ± 6.1	84 ± 2.0		100 ± 7.5
0.1	98 ± 3.7	124 ± 8.7		109 ± 5.5
0.5	117 ± 11.1	81 ± 1.9	169 ± 8.7	129 ± 15.1
1.0	124 ± 14.3	99 ± 7.9	141 ± 10.3	128 ± 9.4
2.0				
2.5			147 ± 16.6	
5.0	104 ± 9.0	95 ± 5.5	153 ± 3.6	112 ± 12.8
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		894 ± 61.4		
Positive Control ³			1169 ± 107.5	566 ± 26.6
Positive Control ⁴	476 ± 24.5			
Positive Control ⁵				

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Strain: TA1535

Dose (mL/Chamber)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.3	7 ± 1.0	7 ± 0.6	10 ± 1.7	7 ± 1.3
0.05	5 ± 0.7	8 ± 2.1	6 ± 1.0	8 ± 3.1	6 ± 1.7
0.1	5 ± 0.3	7 ± 0.6	5 ± 1.0	7 ± 1.2	6 ± 1.2
0.5	5 ± 0.9	8 ± 2.3	5 ± 0.7	8 ± 1.7	11 ± 0.3
1.0	6 ± 1.7	5 ± 1.2	11 ± 1.3	8 ± 2.5	4 ± 0.9
5.0	5 ± 1.0	9 ± 2.3	9 ± 2.1	7 ± 1.7	5 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					71 ± 10.0
Positive Control ⁴			62 ± 6.6		
Positive Control ⁶				71 ± 5.8	
Positive Control ⁵	1026 ± 20.8	1281 ± 42.1			

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Strain: TA1535

Dose (mL/Chamber)	With 30% Hamster S9
Vehicle Control ¹	8 ± 2.1
0.05	11 ± 1.2
0.1	11 ± 1.2
0.5	5 ± 1.9
1.0	7 ± 0.7
5.0	4 ± 1.2
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	137 ± 13.7
Positive Control ⁶	
Positive Control ⁵	

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Strain: TA97

Dose (mL/Chamber)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	183 ± 11.2	187 ± 12.2	198 ± 2.8	215 ± 4.8	174 ± 11.2
0.05	144 ± 16.0	193 ± 10.4	201 ± 11.7	156 ± 4.5	194 ± 2.9
0.1	117 ± 3.2	179 ± 14.6	206 ± 3.5	202 ± 8.6	178 ± 11.6
0.5	161 ± 12.1	197 ± 6.2	204 ± 4.3	216 ± 8.5	173 ± 3.5
1.0	174 ± 6.9	181 ± 22.9	178 ± 19.5	198 ± 14.9	171 ± 9.2
5.0	167 ± 16.8	166 ± 6.4	187 ± 17.8	201 ± 29.0	161 ± 11.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					514 ± 56.8
Positive Control ³			339 ± 23.8		
Positive Control ⁴				339 ± 17.4	
Positive Control ⁷	330 ± 15.0	431 ± 12.4			

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Strain: TA97

Dose (mL/Chamber)	With 30% Hamster S9
Vehicle Control ¹	160 ± 12.3
0.05	122 ± 21.6
0.1	149 ± 9.3
0.5	161 ± 11.9
1.0	183 ± 8.6
5.0	192 ± 5.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	329 ± 10.1
Positive Control ⁴	
Positive Control ⁷	

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Strain: TA98

Dose (mL/Chamber)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	33 ± 3.2	12 ± 2.0	16 ± 3.0	17 ± 1.7	46 ± 4.4
0.05		17 ± 1.5	21 ± 0.9	18 ± 0.3	
0.1		30 ± 5.0	16 ± 1.2	17 ± 1.7	
0.5	35 ± 3.8	28 ± 0.7	20 ± 3.3	22 ± 4.4	38 ± 5.5
1.0	39 ± 3.5	27 ± 3.6	22 ± 2.7	17 ± 1.7	34 ± 3.2
2.0					
2.5	34 ± 3.5				27 ± 1.3
5.0	33 ± 2.4	33 ± 5.2	20 ± 1.2	16 ± 3.0	36 ± 2.3
Trial Summary	Negative	Positive	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				246 ± 16.4	153 ± 17.7
Positive Control ⁸	658 ± 78.6	586 ± 28.1	499 ± 10.2		

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Strain: TA98

Dose (mL/Chamber)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	27 ± 2.3	14 ± 1.7	29 ± 0.9	31 ± 2.8
0.05	29 ± 7.2	11 ± 3.8		34 ± 4.3
0.1	44 ± 2.2	14 ± 1.7		42 ± 0.6
0.5	35 ± 7.5	13 ± 1.7	30 ± 4.6	40 ± 5.4
1.0	36 ± 4.7	12 ± 3.3	31 ± 2.6	43 ± 2.0
2.0				
2.5			32 ± 2.0	
5.0	26 ± 0.9	11 ± 2.9	34 ± 4.3	32 ± 3.7
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		647 ± 15.7		
Positive Control ³	127 ± 25.2		655 ± 52.6	513 ± 44.5
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: 4-Nitro-o-Phenylenediamine

2: 0.5 mL/Chamber 2-Aminoanthracene

3: 1.0 mL/Chamber 2-Aminoanthracene

4: 2.5 mL/Chamber 2-Aminoanthracene

5: 5.0 mL/Chamber Sodium Azide

6: 5.0 mL/Chamber 2-Aminoanthracene

7: 50.0 mL/Chamber 9-Aminoacridine

8: 2.5 mL/Chamber 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****