

Experiment Number: 521900

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Isobutyl anthranilate

CAS Number: 7779-77-3

Date Report Requested: 09/12/2018

Time Report Requested: 17:46:55

NTP Study Number:

521900

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	192 ± 4.1	146 ± 7.2	156 ± 12.1	249 ± 11.9	124 ± 1.8
1.0	221 ± 7.8	128 ± 3.9	146 ± 5.6		
3.3	226 ± 5.5	131 ± 5.5	139 ± 3.5	292 ± 12.6	129 ± 0.7
10.0	218 ± 12.5	119 ± 6.8	152 ± 9.9	295 ± 16.0	126 ± 9.3
33.0	231 ± 5.0	147 ± 4.4	157 ± 7.5	275 ± 14.5	132 ± 6.4
67.0	137 ± 1.7 ^s	113 ± 9.8 ^s	167 ± 4.8 ^s		
100.0				265 ± 19.8	107 ± 9.3
333.0				Toxic	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				1067 ± 9.5	815 ± 44.5
Positive Control ⁴	1181 ± 22.8	1251 ± 49.4	1455 ± 55.5		

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	156 ± 16.4	192 ± 4.0	146 ± 14.5	154 ± 7.8
1.0				
3.3	144 ± 3.5	215 ± 4.9	141 ± 5.5	160 ± 8.6
10.0	157 ± 5.0	226 ± 15.2	130 ± 9.7	131 ± 3.3
33.0	160 ± 4.6	211 ± 3.2	133 ± 7.5	160 ± 3.3
67.0				
100.0	147 ± 10.8	218 ± 15.2	123 ± 12.9	174 ± 5.4
333.0	Toxic	Toxic	Toxic	Toxic
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		1176 ± 32.1	941 ± 35.7	1091 ± 25.0
Positive Control ³	921 ± 14.1			
Positive Control ⁴				

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	43 ± 5.8	38 ± 7.0	25 ± 2.3	57 ± 5.4	10 ± 1.5
1.0	41 ± 3.2	34 ± 5.5	33 ± 2.7		
3.3	46 ± 3.6	25 ± 1.9	30 ± 4.8	60 ± 5.5	11 ± 1.5
10.0	40 ± 3.5	32 ± 3.8	34 ± 0.9	61 ± 2.4	9 ± 0.3
33.0	38 ± 5.0	30 ± 2.8	32 ± 3.5	60 ± 0.3	12 ± 2.2
67.0	Toxic	10 ± 2.2 ^s	18 ± 2.3 ^s		
100.0				54 ± 1.2	7 ± 0.7
333.0				Toxic	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				129 ± 4.2	91 ± 6.9
Positive Control ⁴	835 ± 22.6	1147 ± 45.0	1295 ± 20.3		

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.5	35 ± 4.7	10 ± 1.8	8 ± 0.6
1.0				
3.3	11 ± 1.3	39 ± 2.6	12 ± 2.7	10 ± 0.6
10.0	9 ± 1.0	41 ± 2.5	12 ± 1.2	10 ± 1.7
33.0	8 ± 3.3	40 ± 2.0	11 ± 1.5	11 ± 3.0
67.0				
100.0	10 ± 1.0	35 ± 2.9	13 ± 1.0	11 ± 0.3
333.0	Toxic	Toxic	Toxic	Toxic
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		136 ± 12.7	77 ± 3.6	95 ± 1.2
Positive Control ³	82 ± 1.2			
Positive Control ⁴				

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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	6 ± 1.0	5 ± 1.9	12 ± 1.2	12 ± 0.7	7 ± 2.8
1.0	6 ± 1.2	6 ± 0.6			
3.3	7 ± 1.5	7 ± 1.8	11 ± 0.9	9 ± 2.4	9 ± 1.5
10.0	5 ± 0.0	6 ± 0.9	7 ± 1.3	9 ± 1.0	9 ± 1.0
33.0	6 ± 1.7	8 ± 2.6	9 ± 1.3	10 ± 1.2	5 ± 1.3
67.0	4 ± 0.7 ^s	6 ± 1.8 ^s			
100.0			9 ± 0.3	8 ± 1.5	10 ± 1.5
333.0			Toxic	Toxic	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					113 ± 8.4
Positive Control ³			89 ± 2.6	64 ± 6.8	
Positive Control ⁵	840 ± 41.3	235 ± 34.6			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.5
1.0	
3.3	10 ± 1.2
10.0	8 ± 0.9
33.0	8 ± 1.2
67.0	
100.0	6 ± 0.3
333.0	7 ± 3.5 ^s
Trial Summary	Negative
Positive Control ²	73 ± 10.6
Positive Control ³	
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	19 ± 1.0	14 ± 2.0	33 ± 0.6	27 ± 0.3	32 ± 3.3
1.0	15 ± 1.0	18 ± 0.3			
3.3	16 ± 2.9	13 ± 1.7	28 ± 1.2	21 ± 2.3	26 ± 4.6
10.0	14 ± 1.7	16 ± 3.5	26 ± 1.8	23 ± 3.2	22 ± 3.4
33.0	20 ± 1.7	18 ± 3.8	27 ± 4.1	28 ± 1.8	28 ± 3.2
67.0	12 ± 2.1 ^s	16 ± 1.2 ^s			
100.0			27 ± 0.9	22 ± 1.7	28 ± 5.0
333.0			Toxic	Toxic	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1003 ± 16.7
Positive Control ³			913 ± 19.3	470 ± 29.2	
Positive Control ⁶	1552 ± 37.2	1371 ± 34.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 0.7
1.0	
3.3	34 ± 1.7
10.0	25 ± 2.7
33.0	26 ± 4.0
67.0	
100.0	26 ± 1.5
333.0	20 ± 5.0 ^s
Trial Summary	Negative
Positive Control ²	818 ± 20.0
Positive Control ³	
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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **