

Experiment Number: 505090

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Isophorone

CAS Number: 78-59-1

Date Report Requested: 09/12/2018

Time Report Requested: 05:47:48

NTP Study Number:

505090

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	72 ± 9.1	82 ± 4.7	100 ± 4.5	92 ± 7.5	119 ± 12.7
100.0	63 ± 2.2	74 ± 6.6	95 ± 4.7	90 ± 2.2	114 ± 8.4
333.0	60 ± 2.6	88 ± 7.4	119 ± 2.4	85 ± 9.4	99 ± 4.1
1000.0	59 ± 1.0	Toxic	92 ± 7.0	82 ± 4.2	99 ± 1.2
3333.0	54 ± 4.6	0 ± 0.0	95 ± 3.8	68 ± 20.2	104 ± 7.4
10000.0	Toxic	0 ± 0.0	55 ± 2.7	48 ± 7.2	74 ± 2.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			925 ± 83.5	655 ± 67.4	2276 ± 160.5
Positive Control ³	975 ± 50.0	724 ± 145.8			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	79 ± 2.2
100.0	88 ± 8.1
333.0	117 ± 2.9
1000.0	99 ± 4.8
3333.0	65 ± 3.3
10000.0	80 ± 9.5
Trial Summary	Negative
Positive Control ²	766 ± 130.8
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	4 ± 1.2	6 ± 2.5	7 ± 1.5	7 ± 0.9	8 ± 1.9
33.0				5 ± 1.0	
100.0	5 ± 1.2	4 ± 0.9	8 ± 0.9	6 ± 1.0	6 ± 2.3
333.0	8 ± 2.3	2 ± 0.6	9 ± 2.6	9 ± 2.8	5 ± 1.5
1000.0	6 ± 1.5	Toxic	10 ± 2.1	5 ± 0.3	7 ± 0.9
3333.0	4 ± 0.3	Toxic	6 ± 0.9	5 ± 1.2	5 ± 0.7
10000.0	0 ± 0.3	Toxic	0 ± 0.0		0 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			74 ± 11.0	59 ± 3.5	200 ± 5.7
Positive Control ³	432 ± 35.1	838 ± 79.2			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.2
33.0	
100.0	6 ± 1.0
333.0	6 ± 1.2
1000.0	4 ± 1.5
3333.0	6 ± 1.2
10000.0	0 ± 0.0
Trial Summary	Negative
Positive Control ²	50 ± 10.9
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	8 ± 1.9	2 ± 0.3	5 ± 0.9	4 ± 1.5	13 ± 1.9
33.0				5 ± 1.5	
100.0	4 ± 1.0	1 ± 0.7	5 ± 1.2	5 ± 1.0	8 ± 2.0
333.0	6 ± 0.0	2 ± 1.5	7 ± 1.0	4 ± 0.6	8 ± 1.5
1000.0	5 ± 2.9	4 ± 0.7	4 ± 0.9	3 ± 0.7	8 ± 2.3
3333.0	6 ± 0.7	Toxic	8 ± 0.6	4 ± 0.9	7 ± 3.0
10000.0	0 ± 0.3	Toxic	0 ± 0.0		0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			90 ± 12.2	29 ± 6.0	220 ± 17.5
Positive Control ⁴	46 ± 1.7	43 ± 1.0			

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Date Report Requested: 09/12/2018
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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.7
33.0	4 ± 1.2
100.0	5 ± 0.0
333.0	4 ± 2.4
1000.0	6 ± 2.0
3333.0	4 ± 0.3
10000.0	
Trial Summary	Negative
Positive Control ²	52 ± 14.7
Positive Control ⁴	

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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	23 ± 3.8	10 ± 2.0	29 ± 5.5	11 ± 2.9	28 ± 2.6
33.0				15 ± 0.9	
100.0	26 ± 3.1	12 ± 2.3	29 ± 2.1	17 ± 1.3	24 ± 1.9
333.0	30 ± 3.0	9 ± 0.9	33 ± 0.3	14 ± 0.9	26 ± 3.7
1000.0	25 ± 4.9	0 ± 0.0	26 ± 2.1	17 ± 2.0	27 ± 5.9
3333.0	25 ± 4.3	0 ± 0.0	27 ± 5.7	16 ± 1.8	27 ± 4.1
10000.0	Toxic	0 ± 0.0	0 ± 0.0		0 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			525 ± 15.9	271 ± 30.6	1297 ± 149.4
Positive Control ⁵	237 ± 13.8	368 ± 4.0			

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Date Report Requested: 09/12/2018
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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	17 ± 1.0
33.0	13 ± 2.1
100.0	13 ± 2.3
333.0	15 ± 0.9
1000.0	12 ± 2.6
3333.0	15 ± 0.9
10000.0	
Trial Summary	Negative
Positive Control ²	738 ± 94.6
Positive Control ⁵	

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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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****