

Experiment Number: 343955

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Safrole

CAS Number: 94-59-7

Date Report Requested: 09/13/2018

Time Report Requested: 14:50:10

NTP Study Number:

343955

Study Result:

Negative

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CAS Number: 94-59-7

Date Report Requested: 09/13/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	126 ± 13.2	83 ± 7.1	111 ± 5.0	90 ± 7.0	101 ± 9.2
1.0	118 ± 7.9	94 ± 4.9		101 ± 2.0	
3.3	117 ± 7.1	82 ± 4.7	116 ± 4.5	98 ± 2.3	86 ± 4.4
10.0	115 ± 12.0	96 ± 7.3	103 ± 10.4	101 ± 7.2	106 ± 14.1
33.0	129 ± 3.2	83 ± 3.8	114 ± 6.0	90 ± 4.4	102 ± 0.9
67.0	90 ± 6.0 ^s	65 ± 4.2 ^s			
100.0			109 ± 9.3	95 ± 6.3	115 ± 3.5
200.0			108 ± 10.7 ^s		83 ± 5.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1020 ± 44.7
Positive Control ³			1376 ± 33.9		
Positive Control ⁴				593 ± 20.1	
Positive Control ⁵	1311 ± 52.6	1153 ± 22.8			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	83 ± 5.5
1.0	72 ± 2.0
3.3	92 ± 6.6
10.0	86 ± 2.8
33.0	90 ± 6.5
67.0	
100.0	93 ± 8.2
200.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1253 ± 29.1
Positive Control ⁵	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	28 ± 2.1	17 ± 1.5	12 ± 1.5	12 ± 1.8	11 ± 2.1
1.0	35 ± 2.3	19 ± 1.5		6 ± 1.3	
3.3	30 ± 3.9	18 ± 3.4	18 ± 1.7	8 ± 1.9	9 ± 0.7
10.0	37 ± 7.9	14 ± 1.9	16 ± 1.8	11 ± 2.0	16 ± 1.2
33.0	36 ± 1.3	15 ± 1.8	18 ± 0.6	9 ± 3.0	16 ± 0.9
67.0	32 ± 1.2 ^s	17 ± 1.7 ^s			
100.0			13 ± 1.9	13 ± 1.7	13 ± 1.2
200.0			13 ± 2.1 ^s		12 ± 1.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					132 ± 4.5
Positive Control ³			132 ± 2.0		
Positive Control ⁴				141 ± 5.5	
Positive Control ⁵	1015 ± 2.5	957 ± 29.5			

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Date Report Requested: 09/13/2018

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	8 ± 2.1
1.0	8 ± 0.6
3.3	13 ± 2.7
10.0	7 ± 1.0
33.0	7 ± 2.4
67.0	
100.0	11 ± 1.8
200.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	245 ± 6.0
Positive Control ⁵	

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Date Report Requested: 09/13/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	65 ± 2.8	63 ± 4.3	138 ± 6.1	152 ± 2.1	105 ± 8.6
1.0	50 ± 5.5	80 ± 10.1		141 ± 4.4	
3.3	45 ± 4.6	74 ± 0.6	134 ± 6.4	154 ± 4.6	99 ± 3.2
10.0	57 ± 10.7	72 ± 3.1	92 ± 5.8	143 ± 5.2	109 ± 9.6
33.0	57 ± 5.7	68 ± 11.9	143 ± 6.7	106 ± 8.3	125 ± 6.7
67.0	41 ± 1.9 ^s	56 ± 2.7 ^s			
100.0			113 ± 5.8	103 ± 6.7	120 ± 12.2 ^s
200.0			113 ± 14.9 ^s		101 ± 9.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					957 ± 19.5
Positive Control ³			1266 ± 52.5		
Positive Control ⁴				545 ± 13.6	
Positive Control ⁶	345 ± 17.5	594 ± 93.3			

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Date Report Requested: 09/13/2018

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	99 ± 4.8
1.0	111 ± 2.9
3.3	108 ± 6.1
10.0	99 ± 9.3
33.0	108 ± 6.6
67.0	
100.0	113 ± 0.9
200.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	581 ± 10.4
Positive Control ⁶	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 1.9	11 ± 3.8	32 ± 2.3	21 ± 1.8	32 ± 1.9
1.0	18 ± 3.0	14 ± 1.7		24 ± 5.8	
3.3	18 ± 1.5	17 ± 3.8	33 ± 3.8	24 ± 1.0	30 ± 1.2
10.0	19 ± 1.0	11 ± 1.0	32 ± 3.8	24 ± 0.7	36 ± 3.8
33.0	17 ± 3.3	16 ± 2.1	31 ± 2.6	28 ± 5.2	39 ± 2.6
67.0	15 ± 3.4 ^s	8 ± 2.3 ^s			
100.0			37 ± 2.5	33 ± 2.9	47 ± 4.9
200.0			31 ± 2.1 ^s		Toxic
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ²					702 ± 30.9
Positive Control ³			932 ± 22.4		
Positive Control ⁴				654 ± 3.8	
Positive Control ⁷	1750 ± 56.9	2292 ± 42.4			

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Test Compound: Safrole
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Date Report Requested: 09/13/2018
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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	24 ± 3.2
1.0	23 ± 2.4
3.3	27 ± 1.7
10.0	28 ± 3.1
33.0	20 ± 0.0
67.0	
100.0	29 ± 1.5
200.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1557 ± 30.3
Positive Control ⁷	

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Test Type: **Genetic Toxicology - Bacterial
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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: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****