

Experiment Number: 802383

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 09/15/2018

Time Report Requested: 09:07:29

NTP Study Number:

802383

Study Result:

Negative

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Strain: TA100

Dose (mL/Chamber)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	129 ± 1.0				
Vehicle Control ¹		100 ± 5.0	107 ± 12.7	115 ± 6.5	88 ± 3.9
1.0	126 ± 10.4				
1.0		96 ± 4.1			
3.3		102 ± 16.0	96 ± 4.6	129 ± 9.2	82 ± 9.7
3.3	122 ± 2.0				
10.0	116 ± 5.7				
10.0		106 ± 6.4	108 ± 6.2	116 ± 9.5	87 ± 1.3
33.0		113 ± 10.2	111 ± 7.2	111 ± 5.2	97 ± 9.7
33.0	109 ± 10.3				
100.0		73 ± 10.0 ^s	94 ± 4.5	123 ± 9.9	91 ± 2.6
100.0	80 ± 13.5 ^s				
200.0				92 ± 1.0 ^s	
220.0			Toxic		72 ± 3.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1209 ± 39.8
Positive Control ³			1718 ± 34.1	2497 ± 37.6	
Positive Control ⁴	1901 ± 36.3				
Positive Control ⁵		2119 ± 68.1			

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Strain: TA100

Dose (mL/Chamber)	With 10% Hamster S9
Vehicle Control ¹	
Vehicle Control ¹	103 ± 10.7
1.0	
1.0	
3.3	115 ± 4.2
3.3	
10.0	
10.0	91 ± 4.4
33.0	100 ± 5.0
33.0	
100.0	103 ± 8.3
100.0	
200.0	94 ± 3.5 ^s
220.0	
Trial Summary	Negative
Positive Control ²	1513 ± 12.1
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	

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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	26 ± 2.5	21 ± 2.7	11 ± 2.1	21 ± 0.7	11 ± 0.9
1.0	26 ± 2.0	26 ± 2.6			
3.3	33 ± 2.8	21 ± 3.2	8 ± 0.7	21 ± 4.1	11 ± 1.2
10.0	32 ± 2.5	17 ± 1.8	11 ± 1.0	28 ± 1.8	9 ± 0.3
33.0	29 ± 0.6	20 ± 1.2	7 ± 0.3	22 ± 2.4	11 ± 0.7
100.0	7 ± 1.5 ^s	5 ± 2.1 ^s	9 ± 0.7	19 ± 1.2	9 ± 1.5
200.0				8 ± 2.5 ^s	
220.0			6 ± 3.5 ^s		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					192 ± 9.4
Positive Control ³			203 ± 15.6	196 ± 10.6	
Positive Control ⁵	1600 ± 25.0	1257 ± 37.6			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.6
1.0	
3.3	11 ± 0.9
10.0	10 ± 1.0
33.0	10 ± 2.3
100.0	10 ± 1.5
200.0	5 ± 2.1 ^s
220.0	
Trial Summary	Negative
Positive Control ²	147 ± 20.7
Positive Control ³	
Positive Control ⁵	

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Test Compound: Estragole

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Date Report Requested: 09/15/2018

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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	7 ± 2.3	5 ± 1.5	7 ± 1.7	6 ± 0.6	8 ± 1.5
1.0	5 ± 2.0	2 ± 0.9			
3.3	7 ± 0.9	6 ± 0.9	8 ± 2.1	6 ± 1.8	6 ± 0.6
10.0	6 ± 2.6	6 ± 0.3	7 ± 2.2	6 ± 0.9	5 ± 1.5
33.0	6 ± 0.9	3 ± 0.7	6 ± 1.2	7 ± 2.5	9 ± 2.1
100.0	5 ± 0.3 ^s	6 ± 0.9 ^s	7 ± 1.2	5 ± 1.0	7 ± 1.5
200.0				4 ± 0.3 ^s	
220.0			Toxic		5 ± 2.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					71 ± 8.5
Positive Control ³			185 ± 9.4	178 ± 9.2	
Positive Control ⁶	443 ± 28.6	370 ± 36.0			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.7
1.0	
3.3	5 ± 1.5
10.0	7 ± 0.3
33.0	5 ± 0.9
100.0	12 ± 2.2
200.0	5 ± 2.5 ^s
220.0	
Trial Summary	Negative
Positive Control ²	96 ± 9.4
Positive Control ³	
Positive Control ⁶	

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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	16 ± 2.2	11 ± 2.0	35 ± 3.5	23 ± 2.4	29 ± 2.7
1.0	9 ± 3.0	13 ± 0.9			
3.3	16 ± 1.3	12 ± 5.0	22 ± 2.1	27 ± 1.2	27 ± 3.0
10.0	15 ± 2.2	14 ± 1.5	29 ± 1.2	26 ± 1.7	32 ± 2.3
33.0	18 ± 1.0	13 ± 1.9	29 ± 2.7	25 ± 1.5	29 ± 3.1
100.0	11 ± 4.0 ^s	11 ± 0.3 ^s	25 ± 1.5	26 ± 4.1	19 ± 2.0
200.0				12 ± 1.0 ^s	
220.0			22 ± 3.5 ^s		22 ± 2.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1012 ± 62.5
Positive Control ³			1579 ± 30.6	1705 ± 88.9	
Positive Control ⁷	1332 ± 60.6	1237 ± 10.8			

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Test Compound: Estragole

CAS Number: 140-67-0

Date Report Requested: 09/15/2018

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	29 ± 2.5
1.0	
3.3	24 ± 0.9
10.0	28 ± 2.3
33.0	24 ± 4.2
100.0	20 ± 2.4
200.0	18 ± 3.2 ^s
220.0	
Trial Summary	Negative
Positive Control ²	1055 ± 11.8
Positive Control ³	
Positive Control ⁷	

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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 mL/Chamber Sodium Azide

5: 2.5 ug/Plate Sodium Azide

6: 80.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

**** END OF REPORT ****