

Experiment Number: 206073

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Anethole

CAS Number: 104-46-1

Date Report Requested: 09/14/2018

Time Report Requested: 14:16:52

NTP Study Number:

206073

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	202 ± 5.5	155 ± 2.0	201 ± 9.9	127 ± 11.4	220 ± 7.7
1.0	200 ± 6.7	145 ± 2.5			
3.3	198 ± 14.8	147 ± 12.3	195 ± 9.5	157 ± 11.0	219 ± 10.7
10.0	184 ± 5.0	154 ± 6.4	230 ± 6.0	147 ± 5.5	221 ± 1.2
33.0	201 ± 4.8	137 ± 5.3	200 ± 2.6	157 ± 4.0	216 ± 2.0
67.0	141 ± 16.7 ^s	146 ± 11.3 ^s			
100.0			228 ± 8.7	166 ± 6.6	236 ± 21.7
280.0				121 ± 9.8 ^s	
333.0			137 ± 5.5 ^s		142 ± 3.8 ^s
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ²					646 ± 14.0
Positive Control ³			693 ± 10.4	978 ± 25.8	
Positive Control ⁴	1536 ± 36.4	2033 ± 26.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	167 ± 6.1
1.0	
3.3	174 ± 3.8
10.0	157 ± 4.6
33.0	163 ± 21.4
67.0	
100.0	200 ± 3.5
280.0	139 ± 4.1 ^s
333.0	
Trial Summary	Negative
Positive Control ²	1021 ± 65.4
Positive Control ³	
Positive Control ⁴	

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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	45 ± 0.9	23 ± 1.2	21 ± 0.9	15 ± 1.3	24 ± 5.6
1.0	38 ± 5.8	33 ± 1.8			
3.3	31 ± 3.2	30 ± 4.7	21 ± 3.8	17 ± 1.5	22 ± 1.8
10.0	37 ± 2.0	24 ± 3.9	19 ± 1.2	11 ± 1.2	15 ± 0.3
33.0	32 ± 1.2	29 ± 0.3	23 ± 2.2	18 ± 1.5	16 ± 2.7
67.0	19 ± 0.9 ^s	20 ± 0.6 ^s			
100.0			21 ± 0.7	11 ± 0.9	21 ± 1.9
280.0				11 ± 1.5 ^s	
333.0			7 ± 2.5 ^s		10 ± 1.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					67 ± 0.9
Positive Control ³			60 ± 5.1	88 ± 4.6	
Positive Control ⁴	1170 ± 42.5	1499 ± 43.2			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	14 ± 0.9
1.0	
3.3	12 ± 0.3
10.0	16 ± 4.0
33.0	13 ± 3.0
67.0	
100.0	18 ± 2.4
280.0	10 ± 1.9 ^s
333.0	
Trial Summary	Negative
Positive Control ²	83 ± 0.9
Positive Control ³	
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	3 ± 1.2	8 ± 2.3	8 ± 2.1	11 ± 1.5	7 ± 1.8
1.0	7 ± 1.5	8 ± 1.9			
3.3	6 ± 0.7	7 ± 1.2	11 ± 0.3	6 ± 0.9	7 ± 2.5
10.0	6 ± 0.9	7 ± 1.5	6 ± 2.1	6 ± 2.4	7 ± 1.0
33.0	4 ± 0.6	7 ± 1.2	5 ± 0.6	9 ± 0.9	6 ± 1.9
67.0	3 ± 0.3 ^s	6 ± 1.2 ^s			
100.0			4 ± 1.0	8 ± 2.2	6 ± 1.3
280.0				3 ± 0.7 ^s	
333.0			3 ± 1.0 ^s		4 ± 0.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					31 ± 3.0
Positive Control ³			33 ± 3.2	74 ± 4.7	
Positive Control ⁵	701 ± 48.0	322 ± 22.9			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.2
1.0	
3.3	9 ± 0.9
10.0	9 ± 0.0
33.0	7 ± 1.7
67.0	
100.0	7 ± 1.0
280.0	5 ± 0.7 ^s
333.0	
Trial Summary	Negative
Positive Control ²	84 ± 7.9
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	25 ± 1.9	17 ± 1.2	29 ± 2.3	25 ± 5.0	31 ± 1.2
1.0	18 ± 1.8	18 ± 1.5			
3.3	20 ± 4.6	14 ± 0.9	37 ± 2.0	24 ± 3.2	29 ± 2.1
10.0	17 ± 2.3	15 ± 2.7	35 ± 4.3	25 ± 4.2	29 ± 2.2
33.0	21 ± 2.1	19 ± 1.0	25 ± 3.5	25 ± 0.9	34 ± 3.0
67.0	16 ± 0.9 ^s	13 ± 2.7 ^s			
100.0			28 ± 3.5	30 ± 1.0	37 ± 3.4
280.0				21 ± 1.2 ^s	
333.0			Toxic		18 ± 1.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					411 ± 20.4
Positive Control ³			397 ± 23.8	445 ± 32.2	
Positive Control ⁶	1704 ± 22.2	1086 ± 15.4			

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Test Compound: Anethole
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Date Report Requested: 09/14/2018
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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	31 ± 2.7
1.0	
3.3	25 ± 2.1
10.0	27 ± 3.1
33.0	25 ± 1.8
67.0	
100.0	30 ± 2.6
280.0	24 ± 4.3 ^s
333.0	
Trial Summary	Negative
Positive Control ²	661 ± 34.4
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 ****