

Experiment Number: 278018

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Sodium naphthenate

CAS Number: 61790-13-4

Date Report Requested: 09/11/2018

Time Report Requested: 14:35:24

NTP Study Number:

278018

Study Result:

Negative

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Test Compound: Sodium naphthenate
CAS Number: 61790-13-4

Date Report Requested: 09/11/2018

Time Report Requested: 14:35:24

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	130 ± 3.3	145 ± 3.2	161 ± 5.0	163 ± 2.6	149 ± 3.7
3.3	127 ± 3.8	148 ± 6.9			
10.0	134 ± 8.7	152 ± 3.8	154 ± 8.0		
33.0	111 ± 6.6	150 ± 5.5	168 ± 4.9	140 ± 1.7	164 ± 6.0
67.0				161 ± 5.1	
75.0				157 ± 6.0	
100.0	108 ± 4.9	136 ± 8.1	175 ± 12.3	152 ± 9.7	158 ± 3.8
150.0				151 ± 7.2	
200.0					164 ± 8.7
333.0	15 ± 6.0	85 ± 5.0 ^s	170 ± 8.6		163 ± 7.2
1000.0			114 ± 10.7 ^s		40 ± 10.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	507 ± 114.6	522 ± 20.5			
Positive Control ⁴			711 ± 12.3		
Positive Control ⁵					
Positive Control ⁶				1024 ± 6.3	707 ± 25.7

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	169 ± 4.7	140 ± 2.6	146 ± 4.9
3.3			
10.0	160 ± 1.5		
33.0	157 ± 9.1	129 ± 3.0	134 ± 10.0
67.0		143 ± 5.2	
75.0		147 ± 3.2	
100.0	161 ± 9.6	145 ± 7.8	127 ± 4.7
150.0		153 ± 6.3	
200.0			125 ± 1.9
333.0	163 ± 7.5		162 ± 15.0
1000.0	109 ± 5.6 ^s		119 ± 5.8 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²	900 ± 58.0		
Positive Control ³			
Positive Control ⁴			
Positive Control ⁵		435 ± 18.9	457 ± 34.1
Positive Control ⁶			

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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	10 ± 4.3	8 ± 1.2	9 ± 1.9	7 ± 1.5	10 ± 3.8
3.3	8 ± 2.0	11 ± 0.3	12 ± 0.9		
10.0	8 ± 1.2	15 ± 3.0	9 ± 2.6	10 ± 0.3	12 ± 2.3
33.0	10 ± 0.7	9 ± 1.7	8 ± 1.2	7 ± 0.0	12 ± 1.2
100.0	7 ± 3.5	11 ± 2.4	11 ± 1.5	8 ± 0.7	9 ± 0.9
333.0	5 ± 2.3 ^s	10 ± 3.6	6 ± 0.7 ^s	11 ± 2.0	8 ± 1.2
1000.0			2 ± 1.5 ^s	7 ± 0.0	9 ± 0.6 ^s
3333.0					4 ± 3.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	355 ± 15.5	247 ± 33.1	223 ± 7.9		
Positive Control ⁵					
Positive Control ⁶				126 ± 10.0	128 ± 26.0

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Strain: TA1535

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	15 ± 4.0	8 ± 1.0	14 ± 0.6
3.3			
10.0	13 ± 1.5	9 ± 1.7	10 ± 1.2
33.0	10 ± 2.0	9 ± 1.2	14 ± 2.2
100.0	16 ± 3.2	6 ± 0.9	16 ± 2.3
333.0	11 ± 1.9	11 ± 1.2	12 ± 4.8
1000.0	6 ± 1.2 ^s	5 ± 2.9 ^s	13 ± 2.7 ^s
3333.0			
Trial Summary	Negative	Negative	Negative
Positive Control ²		88 ± 4.8	
Positive Control ³			
Positive Control ⁵			85 ± 3.0
Positive Control ⁶	153 ± 14.0		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	167 ± 20.8	163 ± 7.6	155 ± 7.2	169 ± 13.7	187 ± 0.6
3.3	152 ± 4.7	161 ± 12.5			
10.0	143 ± 5.8	158 ± 4.5	164 ± 6.2	152 ± 4.8	178 ± 5.8
33.0	146 ± 11.5	158 ± 10.5	163 ± 4.9	168 ± 3.3	172 ± 6.2
100.0	135 ± 7.9	168 ± 1.3	171 ± 5.5	161 ± 13.8	193 ± 6.4
333.0	60 ± 6.0 ^s	111 ± 5.5 ^s	181 ± 17.1	167 ± 11.6	155 ± 0.6
1000.0			137 ± 6.2	89 ± 6.0 ^s	84 ± 6.7 ^s
3333.0				48 ± 23.4 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					
Positive Control ⁶			1288 ± 30.1	1279 ± 35.4	616 ± 45.1
Positive Control ⁷	470 ± 26.7	2156 ± 88.8			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	138 ± 8.5	147 ± 12.1
3.3		
10.0	140 ± 10.9	135 ± 12.5
33.0	156 ± 14.2	155 ± 4.9
100.0	147 ± 8.5	139 ± 5.4
333.0	152 ± 6.1	154 ± 6.1
1000.0	86 ± 8.2 ^s	94 ± 5.7 ^s
3333.0		
Trial Summary	Negative	Negative
Positive Control ⁴	1206 ± 98.2	
Positive Control ⁶		880 ± 7.8
Positive Control ⁷		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	27 ± 2.9	19 ± 1.5	21 ± 3.2	21 ± 2.6	23 ± 2.6
3.3	24 ± 0.9	19 ± 1.2	17 ± 2.6		
10.0	24 ± 2.3	17 ± 2.9	16 ± 1.2	24 ± 2.0	23 ± 2.3
33.0	22 ± 4.7	17 ± 3.6	17 ± 1.9	24 ± 2.8	19 ± 0.6
67.0					
75.0					
100.0	22 ± 1.9	20 ± 1.2	16 ± 0.6	28 ± 1.9	23 ± 3.1
150.0					
200.0					
333.0	12 ± 2.1	17 ± 1.3	12 ± 0.9 ^s	29 ± 3.3	24 ± 2.7
1000.0			6 ± 1.5 ^s	22 ± 2.9	15 ± 2.0 ^s
3333.0					0 ± 0.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				312 ± 28.0	293 ± 37.6
Positive Control ⁵					
Positive Control ⁸	271 ± 14.4	289 ± 13.1	260 ± 5.7		

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	29 ± 1.3	32 ± 3.5	24 ± 2.3	28 ± 6.6	30 ± 7.0
3.3					
10.0			23 ± 0.7		
33.0	33 ± 2.0	36 ± 3.1	21 ± 0.3	28 ± 1.2	36 ± 1.9
67.0	33 ± 0.6			29 ± 2.0	
75.0	29 ± 2.1			25 ± 3.8	
100.0	27 ± 4.4	35 ± 2.6	24 ± 1.2	30 ± 3.4	33 ± 3.2
150.0	39 ± 4.0			31 ± 2.7	
200.0		34 ± 3.8			35 ± 5.1
333.0		39 ± 3.8	29 ± 1.5		16 ± 0.6
1000.0		12 ± 4.2 ^s	10 ± 1.9 ^s		16 ± 1.2
3333.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			883 ± 18.9		
Positive Control ⁵	507 ± 30.3	301 ± 12.7		337 ± 23.9	305 ± 5.6
Positive Control ⁸					

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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: 100% Ethanol

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 24.0 ug/Plate 9-Aminoacridine

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****