

Experiment Number: 560437

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Date Report Requested: 09/13/2018

Test Compound: Fatty acids, tall oil, polymers with glycerol, maleic anhydride, phthalic anhydride & soybean oil
Time Report Requested: 22:37:15

CAS Number: 68015-41-8

NTP Study Number:

560437

Study Result:

Negative

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MutagenicityTest Compound: Fatty acids, tall oil, polymers with glycerol, maleic anhydride, phthalic anhydride
& soybean oil

Time Report Requested: 22:37:15

CAS Number: 68015-41-8

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	155 ± 2.0	147 ± 10.2	127 ± 2.2	128 ± 8.1	182 ± 8.7
0.3			137 ± 3.2		
1.0		157 ± 2.5	129 ± 12.7		
3.3		167 ± 15.9	119 ± 11.5		
10.0	140 ± 4.4	141 ± 11.5	120 ± 7.1		
33.0	121 ± 8.7	61 ± 7.0 ^s	126 ± 4.3		
100.0	112 ± 10.2 ^s	61 ± 7.9 ^s		135 ± 5.9 ^p	174 ± 8.5
333.0	86 ± 10.3 ^s			136 ± 5.5 ^p	164 ± 3.9 ^p
1000.0	64 ± 3.5 ^s			125 ± 4.7 ^p	165 ± 5.0 ^p
3333.0				117 ± 6.6 ^p	130 ± 0.6 ^p
10000.0				123 ± 3.2 ^p	154 ± 4.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	323 ± 7.8	310 ± 3.8	422 ± 7.7		
Positive Control ⁴				1563 ± 204.6	
Positive Control ⁵					
Positive Control ⁶					851 ± 50.8

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MutagenicityTest Compound: Fatty acids, tall oil, polymers with glycerol, maleic anhydride, phthalic anhydride
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Time Report Requested: 22:37:15

CAS Number: 68015-41-8

Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	139 ± 3.4	158 ± 2.3
0.3		
1.0		
3.3		
10.0		
33.0		
100.0	130 ± 9.9	147 ± 7.8
333.0	128 ± 3.4 ^p	137 ± 2.6 ^p
1000.0	113 ± 4.2 ^p	131 ± 10.7 ^p
3333.0	129 ± 5.8 ^p	120 ± 9.0 ^p
10000.0	117 ± 6.3 ^p	150 ± 9.1 ^s
Trial Summary	Negative	Negative
Positive Control ²	497 ± 10.3	
Positive Control ³		
Positive Control ⁴		
Positive Control ⁵		665 ± 28.1
Positive Control ⁶		

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Time Report Requested: 22:37:15

CAS Number: 68015-41-8

Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	12 ± 1.5	12 ± 2.6	12 ± 0.9	11 ± 1.5	9 ± 1.9
10.0	8 ± 0.6	11 ± 3.1			
33.0	9 ± 1.5	9 ± 1.2			
100.0	9 ± 0.9	8 ± 0.7	11 ± 1.5 ^P	10 ± 2.7	10 ± 1.2
333.0	4 ± 1.0	11 ± 1.2 ^P	13 ± 2.0 ^P	14 ± 1.0 ^P	12 ± 2.7 ^P
1000.0	4 ± 1.2 ^S	9 ± 1.5 ^P	9 ± 2.3 ^P	11 ± 0.9 ^P	7 ± 2.7 ^P
3333.0			8 ± 1.9 ^P	11 ± 2.2 ^P	8 ± 1.2 ^P
10000.0			9 ± 1.2 ^P	11 ± 3.6 ^P	8 ± 2.1 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					49 ± 4.8
Positive Control ³	149 ± 7.5	269 ± 11.3			
Positive Control ⁵					
Positive Control ⁶			209 ± 10.2	73 ± 3.5	

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity

Test Compound: Fatty acids, tall oil, polymers with glycerol, maleic anhydride, phthalic anhydride
& soybean oil

Time Report Requested: 22:37:15

CAS Number: 68015-41-8

Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 0.3
10.0	
33.0	
100.0	14 ± 1.5
333.0	11 ± 1.7 ^P
1000.0	13 ± 3.3 ^P
3333.0	11 ± 2.3 ^P
10000.0	14 ± 0.7 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	57 ± 4.3
Positive Control ⁶	

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MutagenicityTest Compound: Fatty acids, tall oil, polymers with glycerol, maleic anhydride, phthalic anhydride
& soybean oil

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CAS Number: 68015-41-8

Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	179 ± 9.3	155 ± 13.9	143 ± 6.0	168 ± 5.5	233 ± 5.1
1.0		161 ± 8.7	172 ± 1.5		
3.3		194 ± 4.9	139 ± 3.5		
10.0	172 ± 8.4	180 ± 7.4	151 ± 4.9		
33.0	149 ± 8.5	164 ± 14.5	143 ± 5.0		
100.0	83 ± 9.7 ^s	71 ± 35.9 ^s	148 ± 2.0 ^p	160 ± 13.7 ^p	240 ± 18.0
333.0	80 ± 5.0 ^s			159 ± 12.1 ^p	228 ± 4.6 ^p
1000.0	71 ± 6.3 ^s			127 ± 4.7 ^p	205 ± 3.2 ^p
3333.0				120 ± 2.3 ^p	131 ± 20.9 ^p
10000.0				131 ± 4.5 ^p	134 ± 0.7 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					
Positive Control ⁶				2474 ± 80.8	618 ± 16.6
Positive Control ⁷	418 ± 23.8	764 ± 20.2	833 ± 39.6		

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Test Type: **Genetic Toxicology - Bacterial Mutagenicity**

Test Compound: **Fatty acids, tall oil, polymers with glycerol, maleic anhydride, phthalic anhydride & soybean oil**

Time Report Requested: 22:37:15

CAS Number: 68015-41-8

Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	181 ± 2.9	225 ± 4.2
1.0		
3.3		
10.0		
33.0		
100.0	156 ± 3.2	211 ± 18.7 ^P
333.0	174 ± 2.6 ^P	214 ± 9.5 ^P
1000.0	164 ± 7.5 ^P	217 ± 7.6 ^P
3333.0	156 ± 8.7 ^P	184 ± 8.5 ^P
10000.0	162 ± 8.3 ^P	161 ± 15.1 ^P
Trial Summary	Negative	Negative
Positive Control ⁴	1845 ± 12.3	
Positive Control ⁶		1227 ± 116.1
Positive Control ⁷		

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Test Type: Genetic Toxicology - Bacterial
MutagenicityTest Compound: Fatty acids, tall oil, polymers with glycerol, maleic anhydride, phthalic anhydride
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Time Report Requested: 22:37:15

CAS Number: 68015-41-8

Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 4.5	16 ± 1.5	19 ± 5.0	24 ± 2.7	27 ± 2.0
1.0		12 ± 1.5			
3.3		17 ± 1.7			
10.0	15 ± 1.8	19 ± 1.0			
33.0	19 ± 2.0	15 ± 2.9			
100.0	14 ± 4.8 ^s	17 ± 3.4 ^p	21 ± 3.2 ^p	28 ± 1.5	19 ± 1.5
333.0	8 ± 1.7 ^s		27 ± 3.8 ^p	20 ± 2.7 ^p	18 ± 2.6 ^p
1000.0	6 ± 0.6 ^s		24 ± 1.2 ^p	25 ± 2.0 ^p	23 ± 2.8 ^p
3333.0			19 ± 4.6 ^p	19 ± 1.2 ^p	23 ± 2.5 ^p
10000.0			18 ± 2.9 ^p	21 ± 2.3 ^s	11 ± 0.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			176 ± 14.1		513 ± 60.4
Positive Control ⁵				213 ± 5.8	
Positive Control ⁸	385 ± 16.0	400 ± 24.8			

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Time Report Requested: 22:37:15

CAS Number: 68015-41-8

Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	26 ± 0.7
1.0	
3.3	
10.0	
33.0	
100.0	14 ± 1.7
333.0	24 ± 1.7 ^P
1000.0	19 ± 2.1 ^P
3333.0	20 ± 4.4 ^P
10000.0	16 ± 0.7 ^S
Trial Summary	Negative
Positive Control ²	
Positive Control ⁵	498 ± 33.8
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: Acetone

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

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****