

Experiment Number: 284315

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

G06: Ames Summary Data

Test Compound: **Potassium oleate**

CAS Number: 143-18-0

Date Report Requested: 09/11/2018

Time Report Requested: 15:18:43

NTP Study Number:

284315

Study Result:

Negative

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Test Compound: Potassium oleate

CAS Number: 143-18-0

Date Report Requested: 09/11/2018

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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	165 ± 9.6	149 ± 4.3	154 ± 7.9	176 ± 4.5	149 ± 2.5
0.33	183 ± 9.8				
1.0	185 ± 5.8	145 ± 1.2			
3.3	186 ± 3.1	148 ± 10.2			
10.0	159 ± 14.5 ^s	142 ± 5.6			
33.0	138 ± 3.0 ^s	113 ± 9.4	134 ± 11.0	164 ± 14.2	154 ± 7.8
100.0		108 ± 13.8 ^s	137 ± 4.7	174 ± 7.5	163 ± 5.8
333.0			115 ± 1.8 ^p	163 ± 6.7	123 ± 5.8
1000.0			104 ± 2.2 ^p	142 ± 1.9	102 ± 7.9 ^p
3333.0			80 ± 3.3 ^s	97 ± 8.2 ^p	77 ± 4.1 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					510 ± 21.6
Positive Control ³	449 ± 10.3	409 ± 8.7			
Positive Control ⁴			859 ± 8.4		
Positive Control ⁵					
Positive Control ⁶				1226 ± 20.5	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	184 ± 6.4
0.33	
1.0	
3.3	
10.0	
33.0	165 ± 6.2
100.0	186 ± 3.8
333.0	199 ± 11.1
1000.0	146 ± 3.4
3333.0	104 ± 9.0 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	566 ± 53.8
Positive Control ⁶	

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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	9 ± 0.3	13 ± 1.5	14 ± 1.8	12 ± 0.9	17 ± 1.3
0.33	11 ± 1.7				
1.0	10 ± 2.1	15 ± 0.9			
3.3	11 ± 1.5	13 ± 3.4			
10.0	7 ± 0.6	12 ± 0.9			
33.0	8 ± 2.4	6 ± 2.6	17 ± 2.9	14 ± 1.2	12 ± 2.3
100.0		6 ± 1.2 ^s	11 ± 1.8	9 ± 2.1	13 ± 1.2
333.0			8 ± 1.2	13 ± 1.8	11 ± 3.0
1000.0			10 ± 1.0 ^p	10 ± 0.6 ^p	8 ± 2.1 ^p
3333.0			7 ± 0.7 ^p	9 ± 3.0 ^p	6 ± 1.0 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					57 ± 3.5
Positive Control ³	117 ± 6.8	180 ± 7.8			
Positive Control ⁵					
Positive Control ⁶			125 ± 5.5	65 ± 3.0	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	25 ± 1.5
0.33	
1.0	
3.3	
10.0	
33.0	20 ± 2.3
100.0	20 ± 1.5
333.0	21 ± 0.9
1000.0	16 ± 1.0 ^P
3333.0	13 ± 3.3 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	76 ± 11.1
Positive Control ⁶	

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Date Report Requested: 09/11/2018

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	206 ± 8.0	190 ± 5.0	224 ± 4.6	225 ± 6.1	221 ± 9.2
0.33	189 ± 4.2				
1.0	223 ± 16.8	187 ± 9.2			
3.3	196 ± 3.7	183 ± 22.7			
10.0	159 ± 4.5	171 ± 8.2			
33.0	117 ± 9.0	97 ± 2.3	192 ± 2.8	308 ± 11.4	222 ± 11.9
100.0		89 ± 3.7 ^s	182 ± 8.1	290 ± 17.5	227 ± 11.6
333.0			161 ± 1.5	296 ± 9.5 ^p	216 ± 2.3
1000.0			136 ± 7.6 ^p	209 ± 10.3 ^p	147 ± 4.7 ^p
3333.0			107 ± 5.5 ^p	160 ± 7.3 ^p	120 ± 4.4 ^p
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ⁴					
Positive Control ⁶			1880 ± 38.7	866 ± 29.2	1252 ± 35.5
Positive Control ⁷	420 ± 16.6	390 ± 2.1			

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	228 ± 11.7
0.33	
1.0	
3.3	
10.0	
33.0	218 ± 13.1
100.0	208 ± 6.3
333.0	176 ± 5.2
1000.0	149 ± 0.9 ^P
3333.0	113 ± 4.3 ^P
Trial Summary	Negative
Positive Control ⁴	1099 ± 65.5
Positive Control ⁶	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	37 ± 1.7	23 ± 1.5	12 ± 3.5	19 ± 2.5	36 ± 0.9
0.33	38 ± 3.5				
1.0	36 ± 1.5	24 ± 4.7			
3.3	29 ± 2.3	25 ± 3.7	17 ± 0.7		
10.0	34 ± 1.9	22 ± 2.3	14 ± 2.1		
33.0	27 ± 2.4	24 ± 0.6	11 ± 2.0		29 ± 0.3
100.0		24 ± 3.0	8 ± 1.2	15 ± 2.6	32 ± 2.7
333.0			14 ± 1.3	12 ± 1.5	23 ± 4.2
1000.0			10 ± 0.7	14 ± 1.7	32 ± 0.7 ^P
3333.0				12 ± 1.7 ^P	32 ± 4.7 ^P
10000.0				8 ± 3.5 ^S	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					191 ± 9.8
Positive Control ⁵					
Positive Control ⁸	327 ± 22.5	386 ± 12.1	481 ± 11.4	410 ± 11.0	

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	27 ± 4.9	30 ± 4.1	23 ± 4.9
0.33			
1.0			
3.3			
10.0			
33.0	21 ± 1.5	24 ± 2.0	19 ± 1.5
100.0	25 ± 1.9	25 ± 3.8	18 ± 1.0
333.0	24 ± 0.7	22 ± 2.0	15 ± 1.8
1000.0	18 ± 2.7 ^p	23 ± 3.8 ^p	20 ± 3.3
3333.0	14 ± 2.0 ^p	22 ± 1.5 ^p	16 ± 2.2 ^p
10000.0			
Trial Summary	Negative	Negative	Negative
Positive Control ²		472 ± 16.8	
Positive Control ⁵	445 ± 16.2		469 ± 37.0
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: Water

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 ****