

Experiment Number: A11155

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

G06: Ames Summary Data

Test Compound: **Zinc myristate**

CAS Number: **16260-27-8**

Date Report Requested: **09/15/2018**

Time Report Requested: **20:39:21**

NTP Study Number:

A11155

Study Result:

Negative

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Test Compound: Zinc myristate

CAS Number: 16260-27-8

Date Report Requested: 09/15/2018

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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	100 ± 5.3	88 ± 2.0	122 ± 10.7	140 ± 6.6	134 ± 9.5
10.0	115 ± 6.6	89 ± 5.8			
33.0	100 ± 6.7	81 ± 5.9			
100.0	91 ± 6.7	78 ± 6.8	73 ± 2.3	109 ± 5.9	94 ± 3.1
333.0	73 ± 4.5 ^s	68 ± 3.5	86 ± 5.5	107 ± 3.5	68 ± 28.5
1000.0	72 ± 7.2 ^s	69 ± 4.0	57 ± 0.3	104 ± 7.0	67 ± 0.3
3333.0			59 ± 4.9 ^p	83 ± 5.3 ^p	74 ± 4.6 ^p
10000.0			72 ± 6.7 ^p	90 ± 12.1 ^p	77 ± 5.6 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			571 ± 40.8		1691 ± 84.3
Positive Control ³	436 ± 9.0	428 ± 15.8			
Positive Control ⁴				490 ± 7.0	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	104 ± 4.0
10.0	
33.0	
100.0	113 ± 6.1
333.0	129 ± 8.0
1000.0	125 ± 7.1
3333.0	98 ± 2.1 ^p
10000.0	119 ± 5.5 ^p
Trial Summary	Negative
Positive Control ²	737 ± 8.5
Positive Control ³	
Positive Control ⁴	

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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	11 ± 1.8	12 ± 2.7	8 ± 2.4	18 ± 0.7	8 ± 3.2
10.0	10 ± 2.9	8 ± 2.0			
33.0	15 ± 2.8	12 ± 3.0			
100.0	14 ± 0.9	7 ± 1.7	10 ± 3.1	13 ± 2.7	5 ± 0.6
333.0	10 ± 2.2	10 ± 1.8	6 ± 3.4	17 ± 1.0	7 ± 2.9
1000.0	15 ± 1.5	8 ± 0.9	7 ± 0.6	19 ± 1.2	9 ± 2.9
3333.0			8 ± 2.1	10 ± 0.9 ^p	10 ± 2.7 ^p
10000.0			9 ± 2.3 ^p	7 ± 0.9 ^p	6 ± 1.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			62 ± 3.8	53 ± 1.5	139 ± 0.9
Positive Control ³	512 ± 9.4	361 ± 10.1			

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 1.0
10.0	
33.0	
100.0	16 ± 2.1
333.0	19 ± 2.5
1000.0	19 ± 1.5
3333.0	12 ± 2.2 ^p
10000.0	11 ± 3.5 ^p
Trial Summary	Negative
Positive Control ²	462 ± 27.4
Positive Control ³	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	112 ± 5.7	155 ± 4.5	108 ± 11.8	198 ± 14.5	262 ± 19.8
1.0			139 ± 13.5		
3.0			145 ± 10.3		
10.0	98 ± 6.1	150 ± 4.4	135 ± 7.8		
33.0	90 ± 5.2	136 ± 0.7	133 ± 9.3		
100.0	102 ± 7.0	138 ± 8.8	112 ± 3.0	149 ± 3.1	251 ± 10.6
333.0	94 ± 8.0	88 ± 3.9 ^s		135 ± 0.9	225 ± 13.2
1000.0	Toxic	Toxic		70 ± 6.3 ^s	123 ± 3.5 ^s
3333.0				70 ± 4.8 ^s	Toxic
10000.0				Toxic	Toxic
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²				485 ± 25.8	
Positive Control ⁴					527 ± 25.3
Positive Control ⁵	416 ± 8.6	578 ± 14.8	422 ± 45.0		

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	158 ± 2.6	182 ± 2.0
1.0		
3.0		
10.0		
33.0		
100.0	160 ± 5.5	168 ± 21.2
333.0	149 ± 6.6	161 ± 7.8
1000.0	146 ± 7.5	159 ± 8.4
3333.0	108 ± 8.8 ^s	189 ± 9.3 ^p
10000.0	Toxic	Toxic
Trial Summary	Negative	Negative
Positive Control ²	982 ± 42.1	494 ± 10.7
Positive Control ⁴		
Positive Control ⁵		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	27 ± 6.2	18 ± 2.1	29 ± 5.2	19 ± 2.8	26 ± 0.7
10.0	20 ± 4.1	19 ± 1.2			
33.0	21 ± 5.0	15 ± 1.5			
100.0	21 ± 3.1	19 ± 0.3	24 ± 1.5	19 ± 0.9	23 ± 2.4
333.0	22 ± 2.1	27 ± 1.0	21 ± 2.2	20 ± 2.3	26 ± 3.2
1000.0	22 ± 3.0	20 ± 2.0	22 ± 2.2	14 ± 2.7	23 ± 4.7
3333.0			21 ± 1.8 ^p	15 ± 2.2 ^p	25 ± 4.1 ^p
10000.0			16 ± 2.3 ^p	18 ± 1.2 ^p	24 ± 1.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			884 ± 34.7	246 ± 16.3	2247 ± 14.2
Positive Control ⁶	228 ± 16.5	199 ± 20.8			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	28 ± 1.7
10.0	
33.0	
100.0	32 ± 2.8
333.0	31 ± 1.0
1000.0	28 ± 6.0
3333.0	23 ± 0.9 ^p
10000.0	22 ± 0.9 ^p
Trial Summary	Negative
Positive Control ²	919 ± 18.3
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: 1.0 ug/Plate 2-Aminoanthracene
- 3: 1.0 ug/Plate Sodium Azide
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 50.0 ug/Plate 9-Aminoacridine
- 6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine
- p: Precipitate
- s: Slight Toxicity

** END OF REPORT **