

Experiment Number: 462563

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Lanthanum nitrate hexahydrate

CAS Number: 10277-43-7

Date Report Requested: 09/11/2018

Time Report Requested: 09:55:58

NTP Study Number:

462563

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	94 ± 4.7	220 ± 17.8	105 ± 7.4	132 ± 4.7	212 ± 4.1
3.3	94 ± 8.0		122 ± 9.1		
10.0	93 ± 1.7 ^P		132 ± 1.5 ^P		
33.0	102 ± 7.5 ^P	222 ± 7.1	123 ± 11.8 ^P	143 ± 7.2	207 ± 3.5
100.0	101 ± 6.4 ^P	211 ± 11.2	121 ± 5.2 ^P	141 ± 3.3 ^P	227 ± 8.3 ^P
333.0	97 ± 0.9 ^P	221 ± 11.9 ^P	112 ± 10.1 ^P	149 ± 2.2 ^P	231 ± 7.0 ^P
1000.0		216 ± 3.2 ^P		132 ± 5.0 ^P	212 ± 2.6 ^P
3333.0		143 ± 11.0 ^S		106 ± 5.8 ^P	208 ± 4.0 ^S
10000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					548 ± 7.5
Positive Control ³	746 ± 19.2				
Positive Control ⁴		2362 ± 50.6	755 ± 18.2		
Positive Control ⁵					
Positive Control ⁶				1416 ± 29.8	

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	124 ± 3.4	137 ± 8.5
3.3	120 ± 2.0	
10.0	111 ± 13.5 ^p	
33.0	116 ± 8.5 ^p	147 ± 7.5
100.0	107 ± 3.5 ^p	116 ± 1.5
333.0	113 ± 4.4 ^p	143 ± 7.6
1000.0		130 ± 1.0 ^p
3333.0		117 ± 7.3 ^p
10000.0		
Trial Summary	Negative	Negative
Positive Control ²	302 ± 13.5	
Positive Control ³		
Positive Control ⁴		
Positive Control ⁵		679 ± 12.3
Positive Control ⁶		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	22 ± 0.3	11 ± 2.1	17 ± 0.9	10 ± 1.8	10 ± 0.3
3.3		6 ± 1.5		12 ± 2.1	
10.0		11 ± 2.7 ^P		12 ± 3.8 ^P	
33.0		7 ± 2.2 ^P	15 ± 0.9	14 ± 0.7 ^P	10 ± 2.4
100.0	30 ± 1.9 ^P	9 ± 0.9 ^P	14 ± 1.0 ^P	10 ± 2.1 ^P	10 ± 0.3
333.0	29 ± 1.0 ^P	10 ± 0.7 ^P	16 ± 3.0 ^P	10 ± 0.6 ^P	13 ± 1.5 ^P
1000.0	25 ± 3.8 ^P		12 ± 0.7 ^S		8 ± 0.7 ^P
3333.0	19 ± 2.6 ^P		11 ± 1.2 ^S		8 ± 0.9 ^P
10000.0	14 ± 0.3 ^S				
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	273 ± 7.0	385 ± 17.3			
Positive Control ⁵					
Positive Control ⁶			364 ± 14.8	184 ± 6.2	156 ± 15.5

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G06: Ames Summary Data

Test Compound: Lanthanum nitrate hexahydrate
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	19 ± 2.3	11 ± 1.5	10 ± 1.9
3.3		13 ± 3.4	
10.0		13 ± 1.5 ^P	
33.0	14 ± 2.0 ^P	12 ± 1.2 ^P	13 ± 1.7
100.0	16 ± 0.6 ^P	10 ± 1.0 ^P	13 ± 2.6
333.0	18 ± 1.2 ^P	11 ± 0.6 ^P	9 ± 1.8 ^P
1000.0	12 ± 2.6 ^P		12 ± 2.1 ^P
3333.0	15 ± 1.7 ^P		10 ± 0.9 ^P
10000.0			
Trial Summary	Negative	Negative	Negative
Positive Control ²	77 ± 7.1	39 ± 4.8	
Positive Control ³			
Positive Control ⁵			96 ± 10.7
Positive Control ⁶			

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	113 ± 2.0	127 ± 8.7	115 ± 3.2	199 ± 2.8	114 ± 11.7
33.0				184 ± 3.7	128 ± 5.3 ^P
100.0	107 ± 4.0 ^P	127 ± 1.0 ^P	79 ± 4.6 ^P	163 ± 12.2 ^P	123 ± 9.9 ^P
333.0	93 ± 1.5 ^P	131 ± 2.0 ^P	92 ± 4.6 ^P	129 ± 3.8 ^P	105 ± 10.1 ^P
1000.0	82 ± 7.0 ^P	119 ± 7.1 ^P	109 ± 0.9 ^P	118 ± 1.0 ^P	94 ± 7.0 ^P
3333.0	74 ± 3.4 ^P	99 ± 4.3 ^P	80 ± 6.6 ^P	118 ± 9.4 ^P	86 ± 3.9 ^X
10000.0	62 ± 3.3 ^S	86 ± 2.0 ^X	60 ± 7.5 ^P		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					1078 ± 29.4
Positive Control ⁶			2819 ± 19.2		
Positive Control ⁷				1016 ± 13.2	
Positive Control ⁸	401 ± 27.4	260 ± 19.5			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	156 ± 13.0
33.0	161 ± 4.8
100.0	159 ± 6.7
333.0	155 ± 3.8 ^P
1000.0	122 ± 5.2 ^P
3333.0	99 ± 6.4 ^P
10000.0	
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	1088 ± 24.1
Positive Control ⁸	

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G06: Ames Summary Data

Test Compound: Lanthanum nitrate hexahydrate

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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	23 ± 2.5	41 ± 5.9	29 ± 5.8	32 ± 1.5	31 ± 3.5
33.0				32 ± 3.5	35 ± 1.9
100.0	20 ± 4.7 ^P	31 ± 4.9 ^P	32 ± 1.7	30 ± 0.3	38 ± 4.9
333.0	17 ± 1.7 ^P	37 ± 4.4 ^P	33 ± 4.7	36 ± 1.2	34 ± 4.1
1000.0	16 ± 2.7 ^P	48 ± 2.3 ^P	32 ± 4.1	32 ± 3.0	28 ± 4.0 ^P
3333.0	23 ± 4.0 ^P	45 ± 5.6 ^S	25 ± 0.3 ^P	29 ± 2.3 ^P	27 ± 3.8 ^P
10000.0	13 ± 1.8 ^P	37 ± 2.8 ^S	30 ± 3.6 ^P		
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹					201 ± 22.0
Positive Control ²			350 ± 24.6		
Positive Control ⁵				486 ± 17.3	
Positive Control ¹⁰	359 ± 1.5	313 ± 30.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	37 ± 1.5
33.0	27 ± 4.5
100.0	27 ± 1.0
333.0	26 ± 1.7 ^P
1000.0	26 ± 3.5 ^P
3333.0	26 ± 4.1 ^P
10000.0	
Trial Summary	Negative
Positive Control ⁹	
Positive Control ²	149 ± 0.0
Positive Control ⁵	
Positive Control ¹⁰	

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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: 2.5 ug/Plate 2-Aminoanthracene

8: 16.0 ug/Plate 9-Aminoacridine

9: 0.2 ug/Plate 2-Aminoanthracene

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

x: Slight Toxicity and Precipitate

**** END OF REPORT ****