

Experiment Number: 553742

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

G06: Ames Summary Data

Test Compound: **Zirconium oxychloride hexahydrate**

CAS Number: **25399-81-9**

Date Report Requested: **09/13/2018**

Time Report Requested: **21:38:05**

NTP Study Number:

553742

Study Result:

Negative

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Test Compound: Zirconium oxychloride hexahydrate
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Date Report Requested: 09/13/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	148 ± 4.2	142 ± 4.6	154 ± 6.7	150 ± 5.5	153 ± 8.1
10.0	138 ± 24.0		164 ± 13.0		184 ± 11.1
33.0	137 ± 6.8		152 ± 5.1		195 ± 4.6
100.0	142 ± 14.4	125 ± 8.2	162 ± 4.3	136 ± 4.5	171 ± 7.8
333.0	137 ± 12.8	108 ± 10.9	158 ± 11.9	126 ± 7.1	180 ± 7.2
1000.0	150 ± 8.7	116 ± 13.1	146 ± 3.0 ^p	134 ± 3.7	183 ± 6.8 ^p
3333.0		149 ± 13.5 ^p		77 ± 38.8 ^p	
6666.0		48 ± 24.0 ^p		35 ± 35.3 ^p	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			761 ± 11.3	742 ± 48.2	1832 ± 56.7
Positive Control ³	372 ± 15.7	268 ± 19.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	127 ± 1.0
10.0	
33.0	
100.0	158 ± 9.5
333.0	169 ± 10.5
1000.0	156 ± 7.0
3333.0	144 ± 14.0 ^p
6666.0	126 ± 5.2 ^p
Trial Summary	Negative
Positive Control ²	1572 ± 41.5
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	31 ± 2.6	9 ± 1.3	34 ± 3.3	29 ± 1.5	34 ± 2.4
10.0	28 ± 5.2		45 ± 5.8		36 ± 2.3
33.0	29 ± 3.5		39 ± 2.2		36 ± 3.2
100.0	30 ± 2.4	22 ± 3.0	42 ± 6.6	30 ± 1.0	41 ± 3.5
333.0	30 ± 1.0	29 ± 6.4	35 ± 3.7	33 ± 3.6	38 ± 6.1
1000.0	30 ± 1.0 ^p	20 ± 4.2	38 ± 6.8 ^p	31 ± 3.2	30 ± 0.3 ^p
3333.0		26 ± 3.8 ^p		29 ± 6.8 ^p	
6666.0		0 ± 0.0 ^p		0 ± 0.0 ^p	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	344 ± 6.9	175 ± 23.2			
Positive Control ⁴			225 ± 19.9	114 ± 6.1	505 ± 12.5

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 3.5
10.0	
33.0	
100.0	33 ± 2.3
333.0	37 ± 3.1
1000.0	35 ± 4.9
3333.0	0 ± 0.0 ^p
6666.0	0 ± 0.0 ^p
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	326 ± 15.2

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.7	7 ± 2.9	12 ± 2.4	12 ± 3.2	7 ± 1.2
10.0	10 ± 1.7		6 ± 1.7		8 ± 0.7
33.0	5 ± 0.0		9 ± 2.0		6 ± 1.2
100.0	7 ± 1.2	8 ± 0.9	7 ± 2.8	7 ± 1.2	7 ± 0.7
333.0	7 ± 0.7	8 ± 1.9	9 ± 0.9	9 ± 2.6	9 ± 0.0
1000.0	11 ± 1.9 ^p	8 ± 1.8	9 ± 0.9 ^p	9 ± 2.2	7 ± 1.2 ^p
3333.0		9 ± 1.8 ^p		13 ± 0.9 ^p	
6666.0		0 ± 0.0 ^p		0 ± 0.0 ^p	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			172 ± 17.9	197 ± 7.6	480 ± 5.5
Positive Control ⁵	208 ± 14.6	109 ± 8.7			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.7
10.0	
33.0	
100.0	13 ± 4.2
333.0	8 ± 1.9
1000.0	12 ± 2.0
3333.0	7 ± 2.5 ^p
6666.0	0 ± 0.0 ^p
Trial Summary	Negative
Positive Control ⁴	536 ± 34.9
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	20 ± 0.6	25 ± 0.0	26 ± 4.3	30 ± 3.5	33 ± 3.1
10.0	18 ± 1.0		38 ± 2.9		38 ± 2.5
33.0	23 ± 1.9		37 ± 3.2		35 ± 1.8
100.0	16 ± 0.9	21 ± 4.3	37 ± 1.8	30 ± 0.6	42 ± 3.6
333.0	23 ± 3.1	28 ± 1.5	31 ± 5.5	32 ± 4.2	38 ± 5.2
1000.0	21 ± 4.1	21 ± 4.6	25 ± 3.1 ^P	27 ± 4.1	46 ± 4.7 ^P
3333.0		19 ± 1.5 ^P		28 ± 2.2 ^P	
6666.0		0 ± 0.0 ^P		0 ± 0.0 ^P	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			671 ± 51.3	556 ± 36.2	1718 ± 14.1
Positive Control ⁶	725 ± 35.0	793 ± 25.9			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	32 ± 0.9
10.0	
33.0	
100.0	34 ± 2.7
333.0	34 ± 2.6
1000.0	32 ± 5.8
3333.0	30 ± 3.0 ^P
6666.0	0 ± 0.0 ^P
Trial Summary	Negative
Positive Control ²	1385 ± 100.5
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: 95% Ethanol

2: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****