

Experiment Number: 718643

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Zinc potassium chromate

CAS Number: 11103-86-9

Date Report Requested: 09/12/2018

Time Report Requested: 00:37:45

NTP Study Number:

718643

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	84 ± 6.8	90 ± 6.7	100 ± 9.5	84 ± 3.9	86 ± 2.6
0.3	81 ± 2.6				
1.0	74 ± 1.5	78 ± 7.2			
3.3	92 ± 5.6	91 ± 6.4	103 ± 7.2		99 ± 6.4
10.0	141 ± 8.3	137 ± 6.7	96 ± 0.6		97 ± 5.8
20.0	197 ± 5.6				
33.0		259 ± 32.3	103 ± 5.3	85 ± 1.5	95 ± 9.2
67.0		0 ± 0.0 ^s			
100.0			90 ± 6.2	134 ± 38.7	163 ± 11.7
200.0			234 ± 16.6	383 ± 10.3	434 ± 24.5
333.0				735 ± 156.4	
500.0				0 ± 0.0 ^s	
Trial Summary	Weakly Positive	Positive	Equivocal	Positive	Positive
Positive Control ²	234 ± 6.1	405 ± 8.2			
Positive Control ³					363 ± 16.5
Positive Control ⁴			323 ± 16.4	280 ± 14.9	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	91 ± 1.5
0.3	
1.0	
3.3	
10.0	
20.0	
33.0	91 ± 4.7
67.0	
100.0	213 ± 35.5
200.0	601 ± 91.3
333.0	760 ± 20.3
500.0	0 ± 0.0 ^s
Trial Summary	Positive
Positive Control ²	
Positive Control ³	465 ± 13.3
Positive Control ⁴	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	13 ± 1.5	29 ± 2.8	19 ± 1.7	32 ± 3.2	26 ± 2.7
0.3	12 ± 1.5				
1.0	12 ± 2.3	30 ± 2.0			
3.3	14 ± 3.2	29 ± 3.8	20 ± 0.9		23 ± 3.5
10.0	27 ± 3.6	40 ± 6.6	24 ± 1.5		19 ± 2.6
20.0					
33.0	18 ± 3.8 ^s	70 ± 7.0	21 ± 0.6	41 ± 3.2	22 ± 2.3
67.0		10 ± 4.3 ^s			
100.0			23 ± 2.6	42 ± 8.5	56 ± 6.1
200.0				46 ± 6.4	
333.0			77 ± 4.9	7 ± 7.0	Toxic
500.0				0 ± 0.0 ^s	
Trial Summary	Equivocal	Equivocal	Equivocal	Negative	Equivocal
Positive Control ⁵					161 ± 5.5
Positive Control ⁶	131 ± 13.2	260 ± 17.1			
Positive Control ³			97 ± 4.8	114 ± 10.3	

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Mutagenicity

G06: Ames Summary Data

Test Compound: Zinc potassium chromate

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	23 ± 0.7
0.3	
1.0	
3.3	
10.0	21 ± 2.3
20.0	
33.0	21 ± 3.5
67.0	
100.0	65 ± 3.8
200.0	80 ± 6.0
333.0	0 ± 0.0
500.0	
Trial Summary	Positive
Positive Control ⁵	114 ± 5.9
Positive Control ⁶	
Positive Control ³	

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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: 0.5 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 0.4 ug/Plate 2-Aminoanthracene

6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****