

Experiment Number: 135997

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

G06: Ames Summary Data

Test Compound: **Calcium chromate**

CAS Number: **13765-19-0**

Date Report Requested: **09/12/2018**

Time Report Requested: **08:30:38**

NTP Study Number:

135997

Study Result:

Positive

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Calcium chromate

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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	91 ± 3.5	86 ± 3.3	110 ± 1.2	122 ± 13.9	102 ± 5.1
0.3		87 ± 12.0			
1.0	62 ± 2.6	95 ± 9.1	96 ± 1.7		72 ± 8.1
3.3	68 ± 8.6	103 ± 2.9	99 ± 0.9	101 ± 11.5	72 ± 4.7
10.0	111 ± 11.6 ^s	196 ± 37.4	132 ± 23.2	115 ± 9.0	121 ± 13.0
16.7		175 ± 12.8			
33.3	0 ± 0.0 ^s		212 ± 28.7	273 ± 39.6	196 ± 3.7
66.7				441 ± 85.2	
100.0	Toxic		480 ± 42.7	519 ± 54.3	222 ± 24.6 ^s
Trial Summary	Negative	Weakly Positive	Positive	Positive	Positive
Positive Control ²			884 ± 38.2	1523 ± 14.2	1503 ± 33.8
Positive Control ³	375 ± 8.0	494 ± 7.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	103 ± 5.7
0.3	
1.0	
3.3	112 ± 1.2
10.0	107 ± 10.7
16.7	
33.3	218 ± 21.5
66.7	322 ± 32.8
100.0	204 ± 49.1 ^s
Trial Summary	Positive
Positive Control ²	1859 ± 47.0
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	24 ± 2.1	14 ± 1.2	11 ± 0.7
1.0	13 ± 2.7	7 ± 0.3	11 ± 1.9
3.3	9 ± 2.1	10 ± 0.3	9 ± 2.6
10.0	6 ± 4.5 ^s	11 ± 2.3	5 ± 0.3
33.3	0 ± 0.0 ^s	9 ± 0.6	11 ± 2.4
100.0	Toxic	9 ± 2.2 ^s	0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ³	381 ± 11.9		
Positive Control ⁴		213 ± 9.6	364 ± 13.8

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 2.6	21 ± 4.3	25 ± 2.2
1.0	8 ± 2.4	15 ± 1.0	11 ± 4.8
3.3	9 ± 2.5	9 ± 1.5	14 ± 1.3
10.0	16 ± 6.4 ^S	11 ± 2.4	17 ± 1.2
33.3	0 ± 0.0 ^S	15 ± 5.0	15 ± 3.3
100.0	Toxic	5 ± 2.4 ^S	0 ± 0.0 ^S
Trial Summary	Negative	Negative	Negative
Positive Control ⁴		231 ± 41.9	510 ± 40.2
Positive Control ⁵	154 ± 41.5		

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Calcium chromate

CAS Number: 13765-19-0

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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	37 ± 3.5	19 ± 4.4	42 ± 5.5	31 ± 4.1	49 ± 2.6
0.3		13 ± 0.9			
1.0	54 ± 3.5	23 ± 5.2	45 ± 3.8		45 ± 1.7
3.3	92 ± 1.9	25 ± 3.8	49 ± 6.3	30 ± 2.0	42 ± 0.9
10.0	94 ± 5.6	39 ± 2.0	57 ± 4.4	36 ± 3.8	48 ± 3.8
16.7		49 ± 2.6 ^s			
33.3	0 ± 0.0 ^s		59 ± 5.3	56 ± 0.9	56 ± 5.3
66.7				64 ± 15.3	
100.0	Toxic		6 ± 6.3 ^s	71 ± 7.1	10 ± 10.0 ^s
Trial Summary	Positive	Positive	Negative	Positive	Negative
Positive Control ²			517 ± 27.4	1300 ± 32.9	1210 ± 11.8
Positive Control ⁶	420 ± 8.4	669 ± 20.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	36 ± 3.0
0.3	
1.0	
3.3	29 ± 5.7
10.0	35 ± 2.1
16.7	
33.3	57 ± 7.4
66.7	55 ± 11.5
100.0	59 ± 5.0 ^s
Trial Summary	Equivocal
Positive Control ²	1723 ± 57.6
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: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

**** END OF REPORT ****