

Experiment Number: 369193

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

G06: Ames Summary Data

Test Compound: **Calcium chromate**

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

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

Time Report Requested: **21:22:57**

NTP Study Number:

369193

Study Result:

Equivocal

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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% Rat S9
Vehicle Control ¹	95 ± 12.7	102 ± 6.6	253 ± 12.7	148 ± 7.4	197 ± 12.2
3.0	92 ± 6.5		285 ± 18.1		
3.3		90 ± 11.6		112 ± 4.0	181 ± 11.5
10.0	117 ± 1.9	92 ± 5.9	285 ± 11.6	134 ± 5.8	186 ± 11.5
33.0	115 ± 1.3	94 ± 6.9	255 ± 19.0	105 ± 11.5	176 ± 8.0
100.0	165 ± 13.0	140 ± 16.3	245 ± 27.6	159 ± 17.7	212 ± 7.3
333.0	111 ± 19.7	52 ± 6.4	196 ± 18.2	232 ± 12.3	183 ± 7.4
Trial Summary	Equivocal	Equivocal	Negative	Equivocal	Negative
Positive Control ²			2488 ± 55.1	2464 ± 155.2	1237 ± 221.2
Positive Control ³	721 ± 47.3	1192 ± 187.4			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	259 ± 13.8	153 ± 9.7	188 ± 13.0
3.0	267 ± 20.4		
3.3		141 ± 11.3	178 ± 9.6
10.0	234 ± 11.3	142 ± 5.5	156 ± 9.1
33.0	233 ± 9.3	141 ± 4.5	181 ± 15.0
100.0	206 ± 7.5	156 ± 5.8	255 ± 30.8
333.0	244 ± 19.8	268 ± 51.1	21 ± 7.5
Trial Summary	Negative	Equivocal	Equivocal
Positive Control ²	1146 ± 10.5	1413 ± 38.9	2821 ± 183.2
Positive Control ³			

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	14 ± 1.8	24 ± 2.3	9 ± 1.0	7 ± 2.5	17 ± 0.3
1.0		21 ± 3.6	9 ± 1.5		
3.0	11 ± 0.9		7 ± 0.3	16 ± 0.3	19 ± 1.9
3.3		23 ± 3.3			
10.0	9 ± 0.9	17 ± 3.4	12 ± 1.3	16 ± 0.7	21 ± 3.7
33.0	11 ± 2.3	25 ± 2.3	9 ± 1.7	19 ± 2.8	23 ± 2.0
100.0	2 ± 0.0	3 ± 1.5	7 ± 2.2	16 ± 0.9	23 ± 1.5
333.0	Toxic			Toxic	Toxic
Trial Summary	Negative	Negative	Negative	Equivocal	Equivocal
Positive Control ⁴				162 ± 9.3	305 ± 88.2
Positive Control ³	1101 ± 68.6	1381 ± 118.6	143 ± 35.8		

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 1.7	7 ± 0.7	17 ± 3.2	19 ± 2.0
1.0		11 ± 0.6		
3.0			16 ± 0.6	23 ± 0.9
3.3	16 ± 3.6	9 ± 1.5		
10.0	17 ± 1.5	14 ± 0.7	15 ± 0.3	17 ± 1.7
33.0	17 ± 1.2	13 ± 1.8	17 ± 2.3	18 ± 0.9
100.0	17 ± 2.3	13 ± 2.0	20 ± 1.2	24 ± 1.5
333.0	10 ± 1.0	Toxic	Toxic	17 ± 2.1
Trial Summary	Negative	Equivocal	Negative	Negative
Positive Control ⁴	161 ± 15.1	240 ± 20.9	607 ± 67.9	577 ± 74.5
Positive Control ³				

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	7 ± 0.6	14 ± 0.3	12 ± 1.9	27 ± 1.0	10 ± 1.8
3.0	8 ± 1.3		13 ± 0.7		
3.3		11 ± 1.8		23 ± 0.9	9 ± 0.9
10.0	6 ± 1.2	16 ± 2.3	15 ± 2.6	25 ± 1.5	6 ± 1.9
33.0	6 ± 1.3	17 ± 1.5	14 ± 0.7	25 ± 2.2	8 ± 1.0
100.0	13 ± 2.3	12 ± 1.5	16 ± 3.5	50 ± 2.0	11 ± 0.3
333.0	Toxic	Toxic	Toxic	Toxic	10 ± 2.1
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control ⁴			105 ± 35.0	97 ± 0.9	198 ± 20.2
Positive Control ⁵	602 ± 137.5	691 ± 228.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.5	33 ± 4.4
3.0	12 ± 1.8	
3.3		18 ± 1.5
10.0	13 ± 2.7	29 ± 3.8
33.0	9 ± 0.7	22 ± 0.7
100.0	11 ± 0.3	34 ± 1.8
333.0	Toxic	Toxic
Trial Summary	Negative	Negative
Positive Control ⁴	256 ± 97.5	104 ± 5.7
Positive Control ⁵		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	12 ± 2.0	28 ± 2.9	18 ± 1.5	19 ± 2.1	41 ± 2.5
1.0		26 ± 5.2	19 ± 1.5		
3.0	10 ± 0.7		16 ± 0.9	20 ± 1.5	
3.3		33 ± 2.3			43 ± 7.9
10.0	14 ± 1.7	32 ± 1.5	16 ± 1.3	18 ± 3.2	41 ± 0.3
33.0	15 ± 3.2	33 ± 2.4	23 ± 3.5	16 ± 3.0	51 ± 8.5
100.0	Toxic	24 ± 1.8	0 ± 0.0	27 ± 2.5	48 ± 3.8
333.0	0 ± 0.0			22 ± 3.8	96 ± 13.9
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²				1378 ± 137.2	1114 ± 269.9
Positive Control ⁶	583 ± 9.8	307 ± 10.7	566 ± 10.7		

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Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 1.2	24 ± 3.5	47 ± 2.3
1.0			
3.0		26 ± 0.9	
3.3	22 ± 7.0		39 ± 1.5
10.0	26 ± 1.2	23 ± 5.0	47 ± 3.3
33.0	22 ± 1.7	25 ± 1.5	36 ± 3.9
100.0	38 ± 5.5	30 ± 1.7	57 ± 12.3
333.0	27 ± 2.3	25 ± 0.3	48 ± 7.9
Trial Summary	Equivocal	Negative	Negative
Positive Control ²	516 ± 59.3	907 ± 313.5	962 ± 62.8
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: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****