

Experiment Number: **841046**

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

G06: Ames Summary Data

Test Compound: **Calcium chromate**

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

Date Report Requested: **09/16/2018**

Time Report Requested: **00:26:06**

NTP Study Number:

841046

Study Result:

Weakly Positive

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G06: Ames Summary Data

Test Compound: Calcium chromate
CAS Number: 13765-19-0

Date Report Requested: 09/16/2018

Time Report Requested: 00:26:06

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	65 ± 2.0	78 ± 1.8	104 ± 4.7	81 ± 2.0	135 ± 20.3
1.0		81 ± 4.5			
3.3	63 ± 4.2	76 ± 5.9		79 ± 3.7	128 ± 6.2
10.0	54 ± 3.5	96 ± 3.4		69 ± 3.5	114 ± 4.3
16.7			103 ± 7.2		
33.0	79 ± 6.2	94 ± 6.9		89 ± 6.7	124 ± 11.9
33.3			118 ± 5.8		
66.7			148 ± 14.3		
100.0	97 ± 19.5	94 ± 17.7	135 ± 13.9	104 ± 5.3	143 ± 1.0
150.0					
167.0			Toxic		
200.0					
250.0					
300.0					
333.0	2 ± 0.3			163 ± 14.0	182 ± 9.8
667.0					
Trial Summary	Equivocal	Equivocal	Weakly Positive	Weakly Positive	Equivocal
Positive Control ²				525 ± 235.3	487 ± 6.1
Positive Control ³	562 ± 9.7	492 ± 7.2	1617 ± 71.0		

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	99 ± 4.1	80 ± 4.0	140 ± 8.7	166 ± 3.2	113 ± 12.8
1.0					
3.3		68 ± 8.7	137 ± 5.9		
10.0		71 ± 7.8	136 ± 8.4		
16.7					
33.0		76 ± 8.5	125 ± 10.4		
33.3					
66.7	97 ± 3.1			156 ± 6.6	
100.0	97 ± 9.1	76 ± 2.0	169 ± 27.4	178 ± 3.2	97 ± 6.4
150.0					116 ± 14.0
167.0	151 ± 24.4			239 ± 29.5	
200.0					171 ± 7.5
250.0					186 ± 21.0
300.0					153 ± 4.2
333.0	161 ± 10.1	122 ± 6.9	164 ± 19.1	200 ± 32.0	
667.0	Toxic			Toxic	
Trial Summary	Weakly Positive	Equivocal	Negative	Equivocal	Weakly Positive
Positive Control ²	2915 ± 181.0	312 ± 85.0	541 ± 22.6	1558 ± 235.2	2007 ± 217.0
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	7 ± 1.7	7 ± 2.3	13 ± 1.8	6 ± 0.3	11 ± 0.7
1.0		6 ± 1.3			
3.3	9 ± 1.9	7 ± 3.0	11 ± 1.8	12 ± 2.5	14 ± 3.8
10.0	5 ± 0.6	8 ± 1.5	12 ± 0.3	8 ± 0.6	13 ± 2.6
33.0	8 ± 2.0	4 ± 1.3	12 ± 1.0	10 ± 0.9	12 ± 2.2
100.0	5 ± 0.3	4 ± 2.2	12 ± 1.7	7 ± 1.3	11 ± 2.2
333.0	0 ± 0.3		19 ± 2.0	13 ± 1.2	13 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			139 ± 7.5	35 ± 2.9	201 ± 24.5
Positive Control ³	447 ± 24.7	280 ± 32.8			

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Test Compound: Calcium chromate
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Date Report Requested: 09/16/2018
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.9
1.0	
3.3	6 ± 0.3
10.0	12 ± 0.9
33.0	8 ± 0.3
100.0	6 ± 1.2
333.0	9 ± 0.7
Trial Summary	Negative
Positive Control ²	36 ± 2.1
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% Hamster S9
Vehicle Control ¹	1 ± 0.3	5 ± 1.9	3 ± 0.0	6 ± 1.7	5 ± 1.3
1.0		5 ± 2.3			
3.3	1 ± 0.3	3 ± 0.6	3 ± 0.3	5 ± 1.8	3 ± 0.3
10.0	2 ± 0.7	1 ± 0.6	1 ± 0.9	5 ± 1.3	3 ± 1.2
33.0	4 ± 0.3	3 ± 1.2	2 ± 0.3	5 ± 0.6	5 ± 0.6
100.0	3 ± 0.3	3 ± 1.5	1 ± 0.6	10 ± 1.8	2 ± 0.6
333.0	0 ± 0.0		2 ± 1.2	8 ± 2.0	3 ± 2.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			121 ± 5.5	37 ± 1.5	113 ± 28.9
Positive Control ⁴	152 ± 19.7	248 ± 36.9			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.9
1.0	
3.3	4 ± 1.5
10.0	6 ± 1.8
33.0	6 ± 1.8
100.0	11 ± 1.8
333.0	8 ± 1.8
Trial Summary	Negative
Positive Control ²	42 ± 4.3
Positive Control ⁴	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	20 ± 0.0	14 ± 3.0	19 ± 1.7	20 ± 0.7	28 ± 1.5
1.0		12 ± 1.5			
3.3	24 ± 2.1	14 ± 1.8			28 ± 2.3
10.0	23 ± 2.4	12 ± 2.9			26 ± 3.0
16.7			14 ± 0.9	18 ± 2.3	
33.0	23 ± 0.6	15 ± 1.9			33 ± 3.9
33.3			13 ± 2.3	19 ± 2.6	
66.7			13 ± 0.9	19 ± 3.5	
100.0	48 ± 6.3	16 ± 1.5	18 ± 2.8	21 ± 1.8	22 ± 3.5
167.0			24 ± 7.5	19 ± 3.0	
333.0	0 ± 0.0				16 ± 2.3
667.0					
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					113 ± 11.0
Positive Control ⁵	122 ± 5.7	163 ± 8.1	327 ± 16.8	255 ± 36.2	

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 Test Compound: Calcium chromate
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Date Report Requested: 09/16/2018
 Time Report Requested: 00:26:06

Strain: TA98

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 2.3	15 ± 1.9	29 ± 3.5	21 ± 4.7	40 ± 9.5
1.0					
3.3	20 ± 2.9		32 ± 1.5	19 ± 2.7	
10.0	15 ± 2.9		33 ± 2.9	22 ± 2.2	
16.7					
33.0	16 ± 0.6		35 ± 5.5	18 ± 2.6	
33.3					
66.7		19 ± 2.7			50 ± 4.3
100.0	16 ± 0.3	28 ± 3.2	31 ± 4.7	19 ± 2.7	43 ± 2.9
167.0		15 ± 1.9			41 ± 4.8
333.0	25 ± 1.7	12 ± 2.0	22 ± 7.0	19 ± 6.3	Toxic
667.0		Toxic			Toxic
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ²	243 ± 3.1	2204 ± 306.8	523 ± 21.2	383 ± 17.0	1554 ± 84.7
Positive Control ⁵					

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	23 ± 2.0
1.0	
3.3	
10.0	
16.7	
33.0	
33.3	
66.7	25 ± 2.6
100.0	24 ± 2.7
167.0	25 ± 2.3
333.0	17 ± 3.8
667.0	Toxic
Trial Summary	Negative
Positive Control ²	1672 ± 59.2
Positive Control ⁵	

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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: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****