

Experiment Number: 532997

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: **23:52:23**

**NTP Study Number:**

532997

**Study Result:**

Positive

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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 <sup>1</sup>	110 ± 11.4	103 ± 8.4	123 ± 3.4	101 ± 10.1	117 ± 9.8
1.0	128 ± 7.2		104 ± 9.2		102 ± 0.3
3.3	110 ± 3.8	115 ± 6.0	124 ± 4.3	96 ± 3.7	107 ± 4.6
10.0	136 ± 8.8	119 ± 7.1	99 ± 1.5	100 ± 8.8	119 ± 4.9
33.0	158 ± 1.7	208 ± 19.2	99 ± 5.2	114 ± 7.7	211 ± 47.8
50.0		285 ± 29.8		110 ± 7.9	
75.0		464 ± 33.6		154 ± 33.9	
100.0	714 ± 43.3 <sup>s</sup>	791 ± 52.1	315 ± 31.6	244 ± 15.9	613 ± 75.6 <sup>s</sup>
Trial Summary	Positive	Positive	Equivocal	Positive	Positive
Positive Control <sup>2</sup>					2148 ± 26.1
Positive Control <sup>3</sup>			1529 ± 36.7	1221 ± 35.7	
Positive Control <sup>4</sup>	1953 ± 54.7	1476 ± 40.3			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	98 ± 4.6
1.0	
3.3	92 ± 3.8
10.0	98 ± 1.2
33.0	126 ± 9.7
50.0	278 ± 59.2
75.0	336 ± 9.8
100.0	457 ± 51.9
Trial Summary	Positive
Positive Control <sup>2</sup>	1631 ± 87.9
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	

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**Strain: TA1535**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 10% Rat S9</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	23 ± 0.3	12 ± 2.3	12 ± 1.0
1.0	26 ± 3.2	9 ± 2.3	8 ± 1.5
3.3	24 ± 1.2	9 ± 1.7	8 ± 1.5
10.0	29 ± 5.8	9 ± 1.5	12 ± 2.4
33.0	29 ± 1.0	9 ± 1.5	12 ± 2.7
100.0	7 ± 0.3 <sup>s</sup>	13 ± 2.3 <sup>s</sup>	3 ± 1.7 <sup>s</sup>
Trial Summary	Negative	Negative	Negative
Positive Control <sup>2</sup>			131 ± 6.1
Positive Control <sup>3</sup>		84 ± 2.1	
Positive Control <sup>4</sup>	1305 ± 42.9		

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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 <sup>1</sup>	6 ± 0.9	6 ± 1.2	9 ± 0.7	12 ± 2.6	9 ± 1.9
1.0	7 ± 0.9		7 ± 2.0		8 ± 1.8
3.3	7 ± 3.2	9 ± 0.9	7 ± 0.0	7 ± 3.4	10 ± 2.1
10.0	9 ± 1.7	15 ± 2.6	11 ± 1.8	10 ± 1.5	12 ± 1.5
33.0	12 ± 1.8	14 ± 1.9	9 ± 1.9	10 ± 2.9	13 ± 2.8
50.0		14 ± 4.8		13 ± 2.3	
75.0		6 ± 3.5		11 ± 1.5	
100.0	3 ± 0.3 <sup>s</sup>	2 ± 0.9	14 ± 0.6 <sup>s</sup>	21 ± 5.5	13 ± 5.2 <sup>s</sup>
Trial Summary	Negative	Equivocal	Negative	Equivocal	Negative
Positive Control <sup>2</sup>					188 ± 7.6
Positive Control <sup>3</sup>			168 ± 7.6	86 ± 1.5	
Positive Control <sup>5</sup>	224 ± 28.6	309 ± 119.9			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	10 ± 1.2
1.0	
3.3	11 ± 0.6
10.0	10 ± 2.3
33.0	18 ± 0.7
50.0	17 ± 2.9
75.0	18 ± 6.5
100.0	18 ± 0.3
Trial Summary	Negative
Positive Control <sup>2</sup>	178 ± 16.2
Positive Control <sup>3</sup>	
Positive Control <sup>5</sup>	

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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 <sup>1</sup>	22 ± 4.0	23 ± 3.2	27 ± 2.7	20 ± 2.1	34 ± 4.5
1.0	17 ± 0.6		28 ± 4.2		30 ± 5.5
3.3	17 ± 3.1	18 ± 2.1	30 ± 1.7	23 ± 3.3	23 ± 3.8
10.0	28 ± 2.0	19 ± 0.6	26 ± 4.1	20 ± 2.3	23 ± 3.5
33.0	35 ± 4.3	26 ± 2.2	30 ± 1.8	19 ± 2.0	42 ± 7.2
50.0		49 ± 3.5		19 ± 3.5	
75.0		42 ± 11.0		25 ± 9.6	
100.0	20 ± 1.0 <sup>s</sup>	26 ± 3.5	65 ± 15.1	31 ± 3.0	44 ± 25.7 <sup>s</sup>
Trial Summary	Negative	Weakly Positive	Equivocal	Negative	Negative
Positive Control <sup>2</sup>					1804 ± 65.9
Positive Control <sup>3</sup>			1867 ± 99.4	1163 ± 24.8	
Positive Control <sup>6</sup>	1660 ± 4.8	1745 ± 67.6			

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	18 ± 2.2
1.0	
3.3	19 ± 1.9
10.0	26 ± 2.8
33.0	27 ± 2.1
50.0	43 ± 2.1
75.0	66 ± 7.3
100.0	70 ± 3.5
Trial Summary	Positive
Positive Control <sup>2</sup>	2023 ± 37.5
Positive Control <sup>3</sup>	
Positive Control <sup>6</sup>	



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**LEGEND**

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**\*\* END OF REPORT \*\***