

Experiment Number: 010468

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Chromium carbonyl

CAS Number: 13007-92-6

Date Report Requested: 09/14/2018

Time Report Requested: 06:22:12

NTP Study Number:

010468

Study Result:

Negative

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Test Compound: Chromium carbonyl
CAS Number: 13007-92-6

Date Report Requested: 09/14/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	123 ± 4.7	98 ± 3.8	103 ± 2.7	118 ± 3.2	93 ± 6.6
3.3			102 ± 5.3	132 ± 1.2	92 ± 2.6
10.0	124 ± 0.7	99 ± 8.5	104 ± 3.1	124 ± 7.5	95 ± 1.2
33.0	116 ± 4.9	105 ± 4.6	95 ± 3.2	124 ± 10.6	84 ± 1.0
100.0	121 ± 3.9	112 ± 8.7	92 ± 1.5	136 ± 9.0	101 ± 3.0
333.0	113 ± 6.7	108 ± 2.7	86 ± 2.0	134 ± 2.3	106 ± 5.0
450.0	118 ± 5.5	118 ± 5.0			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					858 ± 17.2
Positive Control ³	310 ± 4.1	459 ± 20.0			
Positive Control ⁴			414 ± 5.7		
Positive Control ⁵					
Positive Control ⁶				655 ± 13.8	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	127 ± 6.7
3.3	118 ± 12.7
10.0	104 ± 7.2
33.0	116 ± 5.5
100.0	97 ± 7.7
333.0	75 ± 5.0 ^s
450.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	430 ± 26.3
Positive Control ⁶	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 2.3	27 ± 1.5	13 ± 1.5	8 ± 0.3	14 ± 2.0
3.3			12 ± 1.8	13 ± 1.2	6 ± 1.2
10.0	18 ± 1.5	27 ± 3.7	9 ± 1.7	13 ± 0.6	15 ± 2.3
33.0	17 ± 2.3	23 ± 2.4	13 ± 2.6	11 ± 0.9	13 ± 0.9
100.0	18 ± 3.2	28 ± 2.6	9 ± 1.2	11 ± 2.0	11 ± 2.1
333.0	21 ± 1.7	29 ± 4.1	12 ± 1.5	10 ± 2.4	6 ± 1.2 ^s
450.0	17 ± 4.0	21 ± 1.5			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					73 ± 9.6
Positive Control ³	219 ± 10.4	308 ± 17.8			
Positive Control ⁵					
Positive Control ⁶			145 ± 2.2	149 ± 4.7	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.2
3.3	9 ± 1.7
10.0	10 ± 0.9
33.0	9 ± 1.2
100.0	5 ± 1.2
333.0	3 ± 0.9 ^s
450.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	82 ± 3.2
Positive Control ⁶	

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Test Compound: Chromium carbonyl
CAS Number: 13007-92-6

Date Report Requested: 09/14/2018
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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	8 ± 2.2	10 ± 1.7	8 ± 1.5
3.3		5 ± 0.6	7 ± 1.0
10.0	8 ± 1.2	10 ± 2.5	8 ± 3.9
33.0	8 ± 1.3	9 ± 1.9	7 ± 1.2
100.0	7 ± 1.2	8 ± 1.2	7 ± 1.9
333.0	8 ± 3.0	4 ± 0.0 ^s	8 ± 1.8
450.0	7 ± 2.1		
Trial Summary	Negative	Negative	Negative
Positive Control ⁷		67 ± 4.2	175 ± 7.0
Positive Control ⁸	126 ± 3.8		

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Test Compound: Chromium carbonyl
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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	70 ± 1.2	73 ± 13.2	111 ± 6.2	120 ± 4.9	111 ± 3.3
3.3			106 ± 5.4	97 ± 3.5	106 ± 1.2
10.0	62 ± 2.6	88 ± 6.6	80 ± 13.0	101 ± 6.7	106 ± 1.5
33.0	66 ± 1.9	70 ± 4.8	97 ± 2.4	93 ± 11.1	104 ± 1.7
100.0	61 ± 0.6	79 ± 8.4	111 ± 11.9	95 ± 3.5	120 ± 5.6
333.0	58 ± 6.9	57 ± 13.1	91 ± 7.8	106 ± 5.3	112 ± 3.7
450.0	61 ± 9.9	74 ± 8.3			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					698 ± 21.3
Positive Control ⁶			1265 ± 44.0		
Positive Control ⁷				498 ± 13.4	
Positive Control ⁹	156 ± 9.6	406 ± 15.3			

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Date Report Requested: 09/14/2018
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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	126 ± 4.9
3.3	111 ± 10.1
10.0	123 ± 5.2
33.0	110 ± 4.2
100.0	108 ± 8.4
333.0	90 ± 2.3
450.0	
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	1038 ± 27.6
Positive Control ⁹	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 1.2	18 ± 3.7	22 ± 3.2	26 ± 2.0	32 ± 4.0
3.3			23 ± 4.2	19 ± 0.9	36 ± 1.5
10.0	12 ± 1.7	16 ± 3.2	30 ± 3.4	18 ± 3.5	40 ± 3.0
33.0	14 ± 1.2	14 ± 2.6	28 ± 2.7	29 ± 3.5	31 ± 1.5
100.0	10 ± 0.7	18 ± 2.0	23 ± 1.0	21 ± 1.2	27 ± 5.9
333.0	12 ± 0.7	16 ± 3.2	29 ± 2.3	23 ± 1.2	29 ± 1.5
450.0	14 ± 0.3	16 ± 4.3			
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					166 ± 6.8
Positive Control ²			232 ± 4.8		
Positive Control ⁵				177 ± 17.1	
Positive Control ¹¹	136 ± 0.9	177 ± 5.0			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	20 ± 1.5
3.3	29 ± 2.6
10.0	25 ± 3.1
33.0	25 ± 2.7
100.0	33 ± 5.5
333.0	24 ± 4.1 ^s
450.0	
Trial Summary	Negative
Positive Control ¹⁰	
Positive Control ²	82 ± 1.5
Positive Control ⁵	
Positive Control ¹¹	

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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: Acetone

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 8.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****