

Experiment Number: A06449

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

G06: Ames Summary Data

Test Compound: **Sodium dichromate dihydrate (VI)**

CAS Number: **7789-12-0**

Date Report Requested: **09/18/2018**

Time Report Requested: **09:12:30**

NTP Study Number:

A06449

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	65 ± 9.2	56 ± 15.9	41 ± 3.5	69 ± 12.6	81 ± 13.5
5.0	106 ± 7.2	86 ± 4.8	45 ± 2.7		
10.0	117 ± 17.6	115 ± 4.4	55 ± 3.4	72 ± 11.6	77 ± 6.5
25.0	272 ± 3.5	202 ± 23.1	116 ± 6.4		
50.0	386 ± 22.2	202 ± 10.2	151 ± 15.1	104 ± 3.2	92 ± 7.8
75.0	154 ± 18.2	45 ± 20.3	24 ± 2.6		
100.0				316 ± 9.9	331 ± 9.5
200.0				368 ± 43.6	91 ± 37.1
300.0				36 ± 2.4	5 ± 1.9
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²	459 ± 4.9	570 ± 13.0	609 ± 28.8		
Positive Control ³				670 ± 88.1	1121 ± 88.5

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9
Vehicle Control ¹	71 ± 8.7
5.0	
10.0	79 ± 11.7
25.0	
50.0	120 ± 3.2
75.0	
100.0	378 ± 43.8
200.0	135 ± 8.6
300.0	2 ± 0.9
Trial Summary	Positive
Positive Control ²	
Positive Control ³	768 ± 36.1

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	32 ± 2.5	21 ± 2.3	26 ± 2.5	27 ± 2.5	19 ± 3.3
5.0	40 ± 2.2	29 ± 1.2			
10.0	52 ± 7.9	33 ± 2.1	26 ± 6.3	26 ± 2.1	19 ± 3.8
15.0		59 ± 5.9			
20.0		55 ± 2.0			
25.0	64 ± 6.5			29 ± 1.5	18 ± 3.4
30.0		12 ± 2.0			
50.0	Toxic		36 ± 2.5	29 ± 0.3	31 ± 0.9 ^P
75.0	Toxic			65 ± 6.5	43 ± 4.7 ^P
100.0			81 ± 3.8	90 ± 7.1	54 ± 4.7 ^P
150.0				6 ± 1.5	
200.0			Toxic	0 ± 0.0	
300.0			Toxic		
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ³			840 ± 81.0	1261 ± 29.6	1137 ± 18.8
Positive Control ⁴	413 ± 13.9	572 ± 8.4			

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	208 ± 6.0	172 ± 7.1	254 ± 47.0	217 ± 17.2
10.0	531 ± 61.1	584 ± 56.6	260 ± 8.5	212 ± 7.0
50.0	601 ± 27.1	797 ± 10.0	403 ± 25.0	347 ± 44.2
100.0	547 ± 52.0	698 ± 19.1	963 ± 58.5	919 ± 39.2
150.0	589 ± 21.1	638 ± 9.7	915 ± 26.9	973 ± 25.0
200.0	365 ± 27.2	473 ± 56.0	962 ± 12.4	933 ± 27.0
Trial Summary	Positive	Positive	Positive	Positive
Positive Control ⁵			789 ± 19.3	821 ± 28.0
Positive Control ⁶	724 ± 12.3			
Positive Control ⁷		853 ± 65.0		

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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: Water

2: 1.0 ug/Plate Sodium Azide

3: 2.5 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate 2-Nitrofluorene

5: 20.0 ug/Plate 2-Aminoanthracene

6: 20.0 ug/Plate Methyl Methane Sulfonate

7: 4000.0 ug/Plate Ethyl Methane Sulfonate

p: Precipitate

** END OF REPORT **