

Experiment Number: A11889

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

G06: Ames Summary Data

Test Compound: **1,2-Dibromo-2,4-dicyanobutane**

CAS Number: **35691-65-7**

Date Report Requested: **09/15/2018**

Time Report Requested: **20:46:56**

NTP Study Number:

A11889

Study Result:

Negative

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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	85 ± 6.5	88 ± 3.7	79 ± 0.7	76 ± 9.0	90 ± 3.5
0.25		67 ± 4.2			
0.5		70 ± 5.2	62 ± 1.5		
1.0	102 ± 5.9	69 ± 7.8	57 ± 0.3		
2.0			62 ± 2.3		
2.5				90 ± 5.5	94 ± 2.3
3.0			67 ± 3.5		
4.0			27 ± 4.7		
5.0	Toxic	Toxic		78 ± 12.5	66 ± 6.1
10.0	Toxic	Toxic		83 ± 6.8	85 ± 5.1
15.0	Toxic	Toxic			80 ± 2.1
20.0					59 ± 5.0
25.0	Toxic			Toxic	
50.0				Toxic	
100.0				Toxic	
150.0					
200.0					
250.0					
Trial Summary	No Call	Negative	Negative	Negative	Negative
Positive Control ²	484 ± 7.7	659 ± 28.9	488 ± 38.6		
Positive Control ³				1213 ± 40.3	966 ± 42.0

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	20 ± 3.2	23 ± 3.5		23 ± 3.2
Vehicle Control ⁴			27 ± 3.5	
0.25	28 ± 1.2			
0.5	21 ± 3.5	20 ± 2.9		
1.0	24 ± 1.0	18 ± 1.8		
2.0		23 ± 1.2		
2.5			37 ± 4.4	31 ± 1.5
3.0		18 ± 3.9		
4.0		7 ± 0.6 ^s		
5.0	1 ± 0.0		36 ± 0.3	29 ± 5.5
10.0	Toxic		36 ± 0.3	29 ± 1.7
15.0	Toxic			21 ± 1.2
20.0				19 ± 3.2
25.0			13 ± 1.5	
50.0			Toxic	
100.0			Toxic	
150.0				
200.0				
250.0				
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ³			1484 ± 86.2	1545 ± 27.0
Positive Control ⁵	804 ± 26.3	668 ± 9.8		

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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	143 ± 5.3	119 ± 10.9	201 ± 4.5	179 ± 11.1
0.25	147 ± 19.0			
0.5	146 ± 7.2	147 ± 10.6		
1.0	115 ± 11.2	146 ± 6.8		
2.0		128 ± 8.1		
2.5			205 ± 4.9	208 ± 9.9
3.0		120 ± 7.5		
4.0		100 ± 3.5		
5.0	Toxic		196 ± 3.1	208 ± 10.7
10.0	Toxic		188 ± 4.6	155 ± 6.6
15.0	Toxic			143 ± 13.3
20.0				99 ± 4.2
25.0			Toxic	
50.0			Toxic	
100.0			Toxic	
150.0				
200.0				
250.0				
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁶			1262 ± 35.0	1197 ± 12.4
Positive Control ⁷	2071 ± 44.6	1879 ± 66.3		

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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 Sodium Azide

3: 2.5 ug/Plate 2-Aminoanthracene

4: Vehicle Control: Dimethyl Formamide

5: 5.0 ug/Plate 2-Nitrofluorene

6: 20.0 ug/Plate 2-Aminoanthracene

7: 4000.0 ug/Plate Methyl Methane Sulfonate

s: Slight Toxicity

**** END OF REPORT ****