

Experiment Number: **A63090**

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

G06: Ames Summary Data

Test Compound: **C.I. Direct blue 14**

CAS Number: **72-57-1**

Date Report Requested: **09/17/2018**

Time Report Requested: **09:26:18**

NTP Study Number:

A63090

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	148 ± 5.8	169 ± 3.3	179 ± 10.5	161 ± 4.5	143 ± 2.9
66.0					
100.0					
333.0					
666.0	131 ± 3.5	281 ± 4.0	252 ± 1.8	174 ± 11.2	234 ± 7.9
1000.0	135 ± 3.5	254 ± 4.9	278 ± 9.9	175 ± 5.5	223 ± 13.1
3333.0	142 ± 1.9	258 ± 3.2	264 ± 4.7	126 ± 3.3	277 ± 9.6
6666.0	121 ± 5.0	160 ± 3.5	230 ± 8.5	129 ± 4.0	401 ± 9.5
10000.0	117 ± 1.2	135 ± 16.5	219 ± 39.1	126 ± 6.1	361 ± 5.8
Trial Summary	Negative	Weakly Positive	Weakly Positive	Negative	Positive
Positive Control ²					938 ± 17.4
Positive Control ³	675 ± 14.1				
Positive Control ⁴		643 ± 21.0	640 ± 33.4		
Positive Control ⁵				226 ± 9.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	167 ± 9.0	155 ± 5.8	26 ± 4.3	134 ± 16.8
66.0			66 ± 3.8	225 ± 11.4
100.0			80 ± 9.1	305 ± 4.0
333.0			181 ± 18.9	868 ± 19.9
666.0	201 ± 11.5	591 ± 12.7	300 ± 12.3	1171 ± 22.1
1000.0	218 ± 4.9	518 ± 28.3	Toxic	936 ± 33.5
3333.0	277 ± 5.1	355 ± 10.2		
6666.0	392 ± 7.7	Toxic		
10000.0	389 ± 18.2	Toxic		
Trial Summary	Positive	Positive	Positive	Positive
Positive Control ²	780 ± 60.3			
Positive Control ³				
Positive Control ⁴				
Positive Control ⁵		338 ± 17.6	101 ± 5.3	501 ± 6.4

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	23 ± 5.0	34 ± 7.0	35 ± 2.2	28 ± 6.7	37 ± 2.0
66.0					
100.0					
333.0					
666.0	23 ± 1.5	57 ± 2.9	43 ± 5.0	32 ± 4.4	54 ± 3.1
1000.0	22 ± 2.5	68 ± 3.2	44 ± 5.6	29 ± 5.2	58 ± 7.8
3333.0	25 ± 6.4	64 ± 3.8	67 ± 3.1	33 ± 3.8	97 ± 5.6
6666.0	15 ± 2.4	40 ± 4.2	60 ± 5.9	26 ± 1.5	113 ± 11.4
10000.0	20 ± 3.5	24 ± 2.0	31 ± 5.6	24 ± 3.7	57 ± 3.5
Trial Summary	Negative	Weakly Positive	Weakly Positive	Negative	Positive
Positive Control ²		188 ± 10.3	172 ± 1.7		715 ± 20.7
Positive Control ⁶	232 ± 9.3				
Positive Control ⁵				51 ± 1.8	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	38 ± 0.3	28 ± 1.5	26 ± 2.7	26 ± 4.3
66.0			95 ± 16.0	66 ± 3.8
100.0			129 ± 16.3	80 ± 9.1
333.0			351 ± 24.1	181 ± 18.9
666.0	43 ± 3.2	250 ± 30.2	544 ± 27.5	300 ± 12.3
1000.0	47 ± 6.1	230 ± 22.6	406 ± 6.7	Toxic
3333.0	94 ± 6.2	Toxic		
6666.0	117 ± 4.4	Toxic		
10000.0	83 ± 4.1	Toxic		
Trial Summary	Positive	Positive	Positive	Positive
Positive Control ²	664 ± 21.4			
Positive Control ⁶				
Positive Control ⁵		128 ± 11.4	227 ± 29.9	101 ± 5.3

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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 2-Aminoanthracene
- 3: 1.0 ug/Plate Sodium Azide
- 4: 2.0 ug/Plate 2-Aminoanthracene
- 5: 250.0 ug/Plate Trypan Blue
- 6: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****