

Experiment Number: 812323

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: C.I. Direct blue 2

CAS Number: 2429-73-4

Date Report Requested: 09/15/2018

Time Report Requested: 13:41:11

NTP Study Number:

812323

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	111 ± 8.2	137 ± 9.5	171 ± 2.1	160 ± 7.0
33.0	108 ± 1.9	132 ± 16.4	185 ± 8.4	143 ± 7.8
100.0	111 ± 2.7	164 ± 7.1	176 ± 16.8	159 ± 8.5
333.0	107 ± 13.0	168 ± 3.8	199 ± 14.9	169 ± 6.1
1000.0	93 ± 6.6 ^P	140 ± 1.3 ^P	142 ± 7.4 ^P	141 ± 5.0 ^P
3333.0	75 ± 1.2 ^P	167 ± 16.5 ^P	193 ± 14.9 ^P	175 ± 6.5 ^P
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²		2010 ± 149.9	2329 ± 49.4	1481 ± 170.6
Positive Control ³	1271 ± 30.6			

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	18 ± 1.2	19 ± 1.8	13 ± 1.2	20 ± 1.2
33.0	19 ± 0.9	15 ± 0.9	18 ± 2.3	15 ± 2.0
100.0	19 ± 2.7	17 ± 2.5	21 ± 4.9	16 ± 1.2
333.0	15 ± 1.5	18 ± 0.3	23 ± 2.2	18 ± 2.8
1000.0	17 ± 0.6 ^P	20 ± 2.1 ^P	25 ± 1.9 ^P	14 ± 1.8 ^P
3333.0	19 ± 4.4 ^P	17 ± 4.2 ^P	15 ± 1.7 ^P	16 ± 5.0 ^P
Trial Summary	Negative	Negative	Weakly Positive	Negative
Positive Control ⁴		448 ± 11.9	336 ± 16.6	302 ± 25.8
Positive Control ³	1296 ± 40.8			

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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 ¹	12 ± 0.9	8 ± 1.5	18 ± 2.3	16 ± 1.7	15 ± 3.2
33.0	7 ± 0.6		11 ± 2.5		13 ± 3.4
100.0	10 ± 1.2		12 ± 2.0		16 ± 1.9
333.0	14 ± 2.2	9 ± 1.5	18 ± 2.0	22 ± 3.8	18 ± 1.5
667.0		17 ± 0.6		23 ± 1.8	
1000.0	24 ± 6.9 ^p	29 ± 2.1 ^p	30 ± 2.4 ^p	25 ± 1.2 ^p	24 ± 2.1 ^p
1667.0		27 ± 1.5 ^p		27 ± 1.8 ^p	
3333.0	23 ± 2.3 ^p	19 ± 3.5 ^p	30 ± 2.6 ^p	21 ± 0.6 ^p	30 ± 4.3 ^p
Trial Summary	Weakly Positive	Positive	Weakly Positive	Weakly Positive	Equivocal
Positive Control ⁴			169 ± 33.3	150 ± 14.5	397 ± 29.6
Positive Control ⁵	803 ± 96.4	2805 ± 88.7			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	14 ± 1.2
33.0	
100.0	
333.0	15 ± 2.3
667.0	20 ± 0.9
1000.0	24 ± 0.7 ^P
1667.0	23 ± 3.6 ^P
3333.0	31 ± 4.7 ^P
Trial Summary	Positive
Positive Control ⁴	255 ± 11.2
Positive Control ⁵	

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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 ¹	23 ± 1.3	30 ± 3.5	33 ± 4.5	32 ± 5.2	36 ± 2.1
33.0	35 ± 4.2	32 ± 4.7	45 ± 3.8	36 ± 1.0	45 ± 5.4
100.0	40 ± 1.9	50 ± 8.4	50 ± 0.7	46 ± 2.3	55 ± 6.2
333.0	64 ± 5.5	55 ± 7.3	49 ± 0.9	46 ± 2.5	68 ± 3.5
1000.0	64 ± 1.3 ^P	119 ± 5.1 ^P	46 ± 3.8 ^P	52 ± 4.3 ^P	75 ± 9.8 ^P
3333.0	98 ± 5.2 ^P	92 ± 7.8 ^P	43 ± 1.5 ^P	55 ± 9.9 ^P	73 ± 2.7 ^P
Trial Summary	Positive	Positive	Weakly Positive	Weakly Positive	Positive
Positive Control ²			906 ± 89.2	1554 ± 132.9	787 ± 161.6
Positive Control ⁶	205 ± 6.7	419 ± 11.3			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	32 ± 1.5
33.0	36 ± 2.4
100.0	41 ± 1.9
333.0	49 ± 2.3
1000.0	90 ± 4.3 ^p
3333.0	87 ± 19.3 ^p
Trial Summary	Positive
Positive Control ²	931 ± 56.0
Positive Control ⁶	

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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 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****