

Experiment Number: 159566

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 5-Fluorouracil

CAS Number: 51-21-8

Date Report Requested: 09/12/2018

Time Report Requested: 21:08:23

NTP Study Number:

159566

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	191 ± 0.9	169 ± 6.7	191 ± 9.5	157 ± 7.8	204 ± 10.0
0.03		164 ± 1.9		172 ± 16.6	
0.1	167 ± 6.1	164 ± 6.2	185 ± 2.2	166 ± 2.9	191 ± 5.2
0.3	165 ± 11.1	115 ± 7.5	168 ± 3.6	145 ± 9.8	166 ± 2.9
1.0	8 ± 0.6	57 ± 21.5	149 ± 2.8	128 ± 11.5	157 ± 3.0
2.0		7 ± 1.0 ^s			
3.3	0 ± 0.0 ^s		6 ± 1.2 ^s	9 ± 1.8 ^s	4 ± 0.0 ^s
10.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1411 ± 65.3
Positive Control ³			890 ± 7.4	444 ± 7.5	
Positive Control ⁴	1374 ± 47.1	1455 ± 34.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	179 ± 12.5
0.03	175 ± 1.2
0.1	178 ± 2.7
0.3	152 ± 5.0
1.0	131 ± 3.0
2.0	
3.3	3 ± 0.9 ^s
10.0	
Trial Summary	Negative
Positive Control ²	508 ± 39.4
Positive Control ³	
Positive Control ⁴	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: 5-Fluorouracil

CAS Number: 51-21-8

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	26 ± 2.6	29 ± 3.0	11 ± 0.9	17 ± 3.8	7 ± 2.5
0.03		31 ± 3.7		21 ± 3.5	
0.1	27 ± 4.7	20 ± 4.6	10 ± 1.0	26 ± 4.0	9 ± 1.2
0.3	22 ± 3.5	16 ± 2.0	10 ± 1.2	18 ± 3.4	8 ± 0.7
1.0	6 ± 1.2	10 ± 0.9	10 ± 0.0	10 ± 1.2	9 ± 1.5
2.0		1 ± 0.3 ^s			
3.3	0 ± 0.0 ^s		3 ± 0.7 ^s	2 ± 0.3 ^s	2 ± 0.7 ^s
10.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					135 ± 17.4
Positive Control ³			78 ± 5.0	54 ± 2.0	
Positive Control ⁴	1054 ± 80.8	1087 ± 76.9			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	20 ± 2.0
0.03	18 ± 1.0
0.1	16 ± 2.6
0.3	13 ± 3.5
1.0	14 ± 0.7
2.0	
3.3	0 ± 0.0 ^s
10.0	
Trial Summary	Negative
Positive Control ²	66 ± 1.9
Positive Control ³	
Positive Control ⁴	

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Mutagenicity**G06: Ames Summary Data**

Test Compound: 5-Fluorouracil

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Date Report Requested: 09/12/2018

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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	7 ± 0.9	6 ± 2.3	10 ± 0.3	7 ± 0.7	10 ± 2.3
0.03		6 ± 2.0		6 ± 1.8	
0.1	6 ± 1.0	7 ± 2.0	8 ± 4.4	7 ± 1.8	8 ± 0.0
0.3	10 ± 1.9	3 ± 1.9	8 ± 0.7	9 ± 0.7	6 ± 2.4
1.0	5 ± 0.9	3 ± 0.3	6 ± 1.2	6 ± 0.9	4 ± 0.6
2.0		1 ± 1.0 ^s			
3.3	0 ± 0.3 ^s		0 ± 0.3 ^s	0 ± 0.0 ^s	0 ± 0.0 ^s
10.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					107 ± 12.4
Positive Control ³			58 ± 6.5	32 ± 3.3	
Positive Control ⁵	191 ± 41.7	136 ± 21.5			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 2.6
0.03	5 ± 1.5
0.1	5 ± 1.7
0.3	5 ± 2.0
1.0	4 ± 0.3
2.0	
3.3	0 ± 0.0 ^s
10.0	
Trial Summary	Negative
Positive Control ²	32 ± 5.3
Positive Control ³	
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	18 ± 2.3	17 ± 1.5	30 ± 1.2	25 ± 3.2	31 ± 0.7
0.03		17 ± 2.0		27 ± 2.4	
0.1	17 ± 1.7	15 ± 2.3	30 ± 6.4	22 ± 2.1	29 ± 7.2
0.3	16 ± 0.9	14 ± 1.9	27 ± 0.7	18 ± 2.3	23 ± 1.2
1.0	13 ± 1.3	11 ± 3.2	17 ± 0.6	21 ± 1.8	23 ± 3.8
2.0		0 ± 0.0 ^s			
3.3	0 ± 0.0 ^s		9 ± 1.8 ^s	5 ± 1.5 ^s	5 ± 1.5 ^s
10.0	Toxic		Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1113 ± 14.3
Positive Control ³			827 ± 35.5	438 ± 30.9	
Positive Control ⁶	1512 ± 46.0	1232 ± 27.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	25 ± 1.2
0.03	27 ± 3.2
0.1	23 ± 1.2
0.3	25 ± 2.2
1.0	23 ± 1.8
2.0	
3.3	0 ± 0.0 ^s
10.0	
Trial Summary	Negative
Positive Control ²	623 ± 15.5
Positive Control ³	
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: Dimethyl Sulfoxide

2: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **