

Experiment Number: 052770

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Phenazopyridine hydrochloride

CAS Number: 136-40-3

Date Report Requested: 09/15/2018

Time Report Requested: 02:39:42

NTP Study Number:

052770

Study Result:

Equivocal

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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	118 ± 2.6	79 ± 2.5	127 ± 8.5	88 ± 1.2	118 ± 10.4
3.3		77 ± 2.8			
10.0	117 ± 5.2	84 ± 3.6	145 ± 10.7	104 ± 0.7	146 ± 12.4
33.3	119 ± 9.6	83 ± 3.7	144 ± 12.4	112 ± 3.9	147 ± 3.6
100.0	109 ± 7.5	70 ± 8.4	165 ± 6.9	107 ± 2.7	155 ± 8.7
333.3	51 ± 17.1 ^s	Toxic	164 ± 16.9	98 ± 6.4	146 ± 15.8
1000.0	0 ± 0.0 ^s		44 ± 14.4 ^s	13 ± 1.8 ^s	11 ± 2.8 ^s
Trial Summary	Negative	Negative	Equivocal	Negative	Equivocal
Positive Control ²			866 ± 21.3	925 ± 55.2	2266 ± 23.5
Positive Control ³	359 ± 12.7	495 ± 3.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	99 ± 5.8
3.3	
10.0	118 ± 6.9
33.3	118 ± 11.0
100.0	129 ± 4.3
333.3	125 ± 10.7
1000.0	25 ± 8.1
Trial Summary	Equivocal
Positive Control ²	1603 ± 50.7
Positive Control ³	

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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	17 ± 3.5	12 ± 2.3	9 ± 2.2	8 ± 2.3	14 ± 0.9
3.3		11 ± 1.8			
10.0	14 ± 3.6	11 ± 1.3	11 ± 2.0	7 ± 1.5	9 ± 1.7
33.3	11 ± 1.0	10 ± 1.0	12 ± 1.5	10 ± 4.7	8 ± 2.1
100.0	16 ± 1.7	8 ± 1.9	10 ± 1.9	8 ± 1.7	8 ± 2.3
333.3	4 ± 2.3 ^s	0 ± 0.0 ^s	12 ± 3.0	9 ± 2.8	7 ± 0.6
1000.0	0 ± 0.0 ^s		2 ± 0.3 ^s	1 ± 0.7 ^s	3 ± 1.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	330 ± 7.0	235 ± 9.5			
Positive Control ⁴			553 ± 91.7	450 ± 2.6	509 ± 24.3

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.5
3.3	
10.0	9 ± 3.5
33.3	11 ± 1.2
100.0	5 ± 0.0
333.3	8 ± 2.1
1000.0	2 ± 0.3
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	442 ± 5.8

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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	10 ± 1.9	6 ± 1.0	10 ± 1.5	12 ± 0.0	15 ± 0.9
3.3		3 ± 0.6			
10.0	6 ± 1.0	6 ± 1.2	9 ± 1.5	10 ± 1.0	10 ± 2.2
33.3	7 ± 0.3	5 ± 1.8	16 ± 0.3	12 ± 2.6	15 ± 1.5
100.0	10 ± 1.2	5 ± 0.7	15 ± 0.7	12 ± 3.0	17 ± 1.0
333.3	4 ± 1.9 ^s	Toxic	19 ± 2.6	11 ± 1.2	16 ± 2.0
1000.0	0 ± 0.0 ^s		3 ± 0.7 ^s	1 ± 0.7 ^s	6 ± 2.7 ^s
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ⁴			317 ± 24.5	247 ± 17.8	606 ± 15.8
Positive Control ⁵	247 ± 16.6	602 ± 47.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 3.7
3.3	
10.0	12 ± 2.4
33.3	12 ± 1.5
100.0	10 ± 3.0
333.3	20 ± 3.1
1000.0	4 ± 0.9
Trial Summary	Negative
Positive Control ⁴	364 ± 18.5
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	30 ± 4.0	21 ± 2.1	47 ± 4.0	29 ± 0.6	39 ± 5.4
3.3		20 ± 3.2			
10.0	31 ± 5.2	18 ± 4.2	51 ± 2.8	29 ± 2.3	42 ± 3.5
33.3	28 ± 1.0	24 ± 4.5	53 ± 6.6	34 ± 4.1	36 ± 6.7
100.0	24 ± 2.6	19 ± 3.5	47 ± 2.1	31 ± 4.6	48 ± 5.2
333.3	2 ± 1.2 ^s	Toxic	47 ± 4.3	37 ± 6.8	50 ± 5.2
1000.0	0 ± 0.0 ^s		18 ± 1.3 ^s	9 ± 1.2 ^s	6 ± 1.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			671 ± 26.8	572 ± 29.6	1970 ± 40.8
Positive Control ⁶	594 ± 16.2	825 ± 43.6			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 1.5
3.3	
10.0	32 ± 4.2
33.3	33 ± 2.3
100.0	38 ± 2.9
333.3	32 ± 2.3
1000.0	11 ± 4.0
Trial Summary	Negative
Positive Control ²	1443 ± 61.4
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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****