

Experiment Number: **488601**

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

G06: Ames Summary Data

Test Compound: **Promethazine hydrochloride**

CAS Number: **58-33-3**

Date Report Requested: **09/11/2018**

Time Report Requested: **22:45:15**

NTP Study Number:

488601

Study Result:

Negative

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Test Compound: Promethazine hydrochloride
CAS Number: 58-33-3

Date Report Requested: 09/11/2018

Time Report Requested: 22:45:15

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	164 ± 9.4	192 ± 12.3	141 ± 6.1	210 ± 2.9	133 ± 10.7
1.0	143 ± 10.8	200 ± 16.3			
3.3	167 ± 8.0	186 ± 11.0	141 ± 20.4	207 ± 4.0	144 ± 1.9
10.0	150 ± 6.4	190 ± 0.6	168 ± 3.0	224 ± 20.3	163 ± 11.7
33.0	154 ± 8.1	188 ± 3.5	170 ± 9.8	231 ± 4.7	137 ± 9.2
100.0	103 ± 8.6 ^S	115 ± 5.2 ^S	166 ± 2.3	222 ± 6.4	143 ± 9.8
333.0			125 ± 3.2 ^S	197 ± 4.4 ^S	133 ± 5.0 ^S
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			934 ± 3.7	294 ± 0.7	854 ± 34.4
Positive Control ⁴	1175 ± 9.9	1143 ± 42.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	171 ± 3.9	199 ± 5.5
1.0		
3.3	145 ± 9.5	214 ± 18.8
10.0	155 ± 3.2	215 ± 19.5
33.0	163 ± 11.3	196 ± 5.2
100.0	168 ± 6.7	196 ± 11.3
333.0	110 ± 3.8 ^s	150 ± 6.2 ^s
Trial Summary	Negative	Negative
Positive Control ²	1188 ± 33.7	2234 ± 63.0
Positive Control ³		
Positive Control ⁴		

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	33 ± 2.1	39 ± 2.6	12 ± 0.3	22 ± 2.7	18 ± 1.0
1.0	39 ± 3.5	33 ± 7.4			
3.3	36 ± 3.7	30 ± 3.1	16 ± 1.2	19 ± 3.8	22 ± 3.2
10.0	25 ± 3.5	30 ± 3.2	14 ± 0.9	15 ± 2.0	17 ± 0.9
33.0	37 ± 0.6	28 ± 0.9	13 ± 2.5	18 ± 2.3	15 ± 0.9
100.0	21 ± 5.4 ^s	13 ± 0.9 ^s	14 ± 2.6	17 ± 3.5	13 ± 2.0
333.0			6 ± 1.5 ^s	10 ± 1.3 ^s	10 ± 1.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			108 ± 5.1	32 ± 0.6	89 ± 2.7
Positive Control ⁴	1062 ± 15.0	944 ± 25.5			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	13 ± 2.4	21 ± 2.7
1.0		
3.3	11 ± 2.6	18 ± 1.5
10.0	13 ± 2.3	14 ± 0.0
33.0	16 ± 0.7	19 ± 2.7
100.0	12 ± 2.1	14 ± 3.3
333.0	8 ± 2.2 ^s	11 ± 2.0 ^s
Trial Summary	Negative	Negative
Positive Control ²	112 ± 2.9	171 ± 10.8
Positive Control ³		
Positive Control ⁴		

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Test Compound: Promethazine hydrochloride

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	6 ± 1.2	6 ± 1.9	8 ± 0.3	8 ± 1.2	7 ± 0.9
1.0	7 ± 0.9	4 ± 0.6			
3.3	6 ± 1.7	5 ± 1.2	7 ± 1.2	8 ± 2.1	4 ± 0.3
10.0	8 ± 0.3	7 ± 1.2	6 ± 1.3	9 ± 0.9	7 ± 1.8
33.0	9 ± 1.5	7 ± 1.5	4 ± 0.7	5 ± 0.6	6 ± 1.2
100.0	6 ± 2.3 ^s	Toxic	6 ± 0.9	6 ± 1.2	6 ± 2.3
333.0			4 ± 1.2 ^s	6 ± 1.0 ^s	5 ± 1.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			60 ± 7.1	16 ± 0.6	64 ± 4.1
Positive Control ⁵	364 ± 22.3	518 ± 71.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 0.6	6 ± 1.8
1.0		
3.3	5 ± 1.9	7 ± 2.4
10.0	6 ± 0.3	4 ± 0.3
33.0	7 ± 1.3	7 ± 0.7
100.0	10 ± 1.2	6 ± 0.0
333.0	4 ± 0.6 ^s	3 ± 0.6 ^s
Trial Summary	Negative	Negative
Positive Control ²	88 ± 1.2	273 ± 10.2
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% Rat S9
Vehicle Control ¹	23 ± 3.8	16 ± 2.4	30 ± 3.2	22 ± 4.3	25 ± 2.3
1.0	18 ± 0.0	16 ± 2.0			
3.3	21 ± 1.9	16 ± 2.1	30 ± 6.4	29 ± 4.7	28 ± 2.6
10.0	19 ± 1.2	20 ± 2.7	32 ± 4.4	24 ± 3.8	29 ± 2.1
33.0	25 ± 2.2	15 ± 2.5	31 ± 0.3	33 ± 3.8	29 ± 0.9
100.0	13 ± 3.4 ^S	14 ± 0.3 ^S	37 ± 3.2	21 ± 1.8	27 ± 1.2
333.0			21 ± 2.2 ^S	19 ± 2.0 ^S	21 ± 1.5 ^S
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			621 ± 16.1	71 ± 1.2	327 ± 13.5
Positive Control ⁶	1430 ± 30.1	1409 ± 46.7			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	31 ± 2.2	22 ± 3.7
1.0		
3.3	25 ± 2.9	29 ± 3.2
10.0	26 ± 3.2	26 ± 1.2
33.0	28 ± 1.9	28 ± 0.3
100.0	31 ± 2.7	19 ± 2.2
333.0	26 ± 3.6 ^s	19 ± 3.2 ^s
Trial Summary	Negative	Negative
Positive Control ²	983 ± 7.1	1218 ± 21.8
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: Water

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 ****