

Experiment Number: 835691

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

G06: Ames Summary Data

Test Compound: **Phenbenzamine hydrochloride**

CAS Number: **2045-52-5**

Date Report Requested: **09/15/2018**

Time Report Requested: **23:29:06**

NTP Study Number:

835691

Study Result:

Negative

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Phenbenzamine hydrochloride

CAS Number: 2045-52-5

Date Report Requested: 09/15/2018

Time Report Requested: 23:29:06

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	93 ± 3.5	74 ± 2.9	154 ± 2.3	133 ± 12.4	116 ± 7.5
3.3		67 ± 5.5	124 ± 12.2		
10.0		73 ± 4.0	132 ± 4.0		147 ± 7.8
33.0	91 ± 9.0	59 ± 1.9	136 ± 15.4	142 ± 8.0	141 ± 2.7
100.0	83 ± 4.7	70 ± 5.2	127 ± 6.1	145 ± 11.5	134 ± 5.5
333.0	80 ± 3.1	79 ± 6.7	136 ± 12.0	109 ± 12.4	138 ± 5.7
1000.0	Toxic			96 ± 7.0	80 ± 7.5
3333.0	Toxic			Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²				748 ± 93.1	1363 ± 27.4
Positive Control ³	1281 ± 43.8	806 ± 15.7	1338 ± 50.1		

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	170 ± 12.1	113 ± 4.5
3.3		
10.0		133 ± 7.4
33.0	158 ± 4.3	130 ± 10.3
100.0	183 ± 13.0	110 ± 3.5
333.0	155 ± 6.5	100 ± 13.0
1000.0	123 ± 21.0	69 ± 2.0
3333.0	Toxic	
Trial Summary	Negative	Negative
Positive Control ²	1448 ± 150.5	1154 ± 71.3
Positive Control ³		

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Test Compound: Phenbenzamine hydrochloride

CAS Number: 2045-52-5

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	4 ± 1.2	7 ± 0.3	29 ± 0.6	5 ± 1.2	10 ± 1.3
1.0		7 ± 1.0	30 ± 4.0		
3.3		7 ± 0.3	33 ± 2.6		11 ± 1.0
10.0		6 ± 1.0	26 ± 1.8		12 ± 0.9
33.0	3 ± 0.7	6 ± 1.5	37 ± 1.5	3 ± 0.0	9 ± 0.9
100.0	3 ± 0.3	4 ± 0.9	29 ± 3.2	4 ± 1.2	8 ± 0.9
333.0	Toxic			2 ± 0.0	8 ± 1.2
1000.0	Toxic			Toxic	
3333.0	0 ± 0.0			Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				67 ± 7.7	218 ± 27.7
Positive Control ³	521 ± 58.4	233 ± 45.6	1093 ± 67.1		

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	31 ± 4.7	8 ± 1.0	11 ± 2.3	26 ± 1.9
1.0				
3.3	26 ± 0.7		14 ± 1.2	25 ± 2.5
10.0	28 ± 1.0		10 ± 0.6	28 ± 2.0
33.0	34 ± 2.3	8 ± 1.5	10 ± 0.6	29 ± 2.6
100.0	28 ± 3.8	7 ± 2.1	9 ± 0.0	26 ± 2.0
333.0	27 ± 1.2	2 ± 0.3	9 ± 0.9	23 ± 1.5
1000.0		Toxic		
3333.0		Toxic		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴	330 ± 9.9	186 ± 7.1	241 ± 34.1	353 ± 5.5
Positive Control ³				

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**

Test Compound: Phenbenzamine hydrochloride

CAS Number: 2045-52-5

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	5 ± 0.6	5 ± 1.7	23 ± 0.9	8 ± 2.9	7 ± 0.7
1.0		7 ± 0.9	23 ± 1.8		
3.3		3 ± 0.6	26 ± 1.8		
10.0		5 ± 0.9	23 ± 1.2		6 ± 1.2
33.0	8 ± 0.7	4 ± 0.9	18 ± 1.2	12 ± 2.2	8 ± 1.9
100.0	5 ± 0.6	4 ± 0.3	22 ± 1.5	5 ± 0.3	7 ± 1.0
333.0	Toxic			9 ± 1.3	8 ± 0.7
1000.0	Toxic			6 ± 0.0	6 ± 1.7
3333.0	Toxic			0 ± 0.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				128 ± 6.4	214 ± 23.7
Positive Control ⁵	472 ± 81.9	403 ± 114.3	632 ± 170.1		

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Test Compound: **Phenbenzamine hydrochloride**

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.3	9 ± 1.8
1.0		
3.3		6 ± 1.5
10.0		7 ± 1.5
33.0	6 ± 1.3	7 ± 0.9
100.0	3 ± 0.6	7 ± 1.0
333.0	6 ± 1.2	6 ± 1.7
1000.0	1 ± 0.7	
3333.0	Toxic	
Trial Summary	Negative	Negative
Positive Control ⁴	134 ± 12.3	153 ± 23.0
Positive Control ⁵		

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Test Compound: Phenbenzamine hydrochloride

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	18 ± 3.0	15 ± 1.5	22 ± 2.9	16 ± 2.0	18 ± 2.1
3.3		15 ± 1.3			
10.0		19 ± 2.6			27 ± 2.3
16.7			22 ± 2.3		
33.0	15 ± 2.5	20 ± 1.5	23 ± 2.8	18 ± 2.1	23 ± 3.2
67.0			15 ± 0.3		
100.0	12 ± 0.3	22 ± 3.8	21 ± 3.3	17 ± 0.6	26 ± 4.1
167.0			19 ± 0.6		
333.0	13 ± 1.2	16 ± 4.3		16 ± 1.5	25 ± 2.7
1000.0	Toxic			18 ± 2.9	22 ± 1.5
3333.0	Toxic			Toxic	
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ²				192 ± 3.5	683 ± 39.2
Positive Control ⁶	231 ± 27.0	367 ± 20.6	162 ± 7.6		

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Test Compound: Phenbenzamine hydrochloride
CAS Number: 2045-52-5

Date Report Requested: 09/15/2018

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 1.2	18 ± 0.6
3.3		
10.0		19 ± 3.2
16.7		
33.0	24 ± 5.2	19 ± 0.7
67.0		
100.0	25 ± 2.8	15 ± 1.5
167.0		
333.0	18 ± 3.7	14 ± 1.2
1000.0	15 ± 1.2	15 ± 0.3
3333.0	Toxic	
Trial Summary	Negative	Negative
Positive Control ²	712 ± 142.9	876 ± 83.3
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: 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

**** END OF REPORT ****