

Experiment Number: A19360

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

G06: Ames Summary Data

Test Compound: **Pyridostigmine bromide**

CAS Number: **101-26-8**

Date Report Requested: **09/16/2018**

Time Report Requested: **09:25:36**

NTP Study Number:

A19360

Study Result:

Negative

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Test Compound: Pyridostigmine bromide
CAS Number: 101-26-8

Date Report Requested: 09/16/2018
Time Report Requested: 09:25:36

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	124 ± 2.7	144 ± 7.1	137 ± 8.4	137 ± 10.5	136 ± 0.9
100.0	109 ± 3.5	137 ± 6.1	121 ± 9.4	139 ± 8.1	145 ± 5.3
333.0	118 ± 7.9	114 ± 3.8	112 ± 8.4	128 ± 6.9	126 ± 8.1
1000.0	117 ± 2.7	126 ± 4.8	127 ± 8.5	134 ± 2.7	128 ± 5.6
3333.0	108 ± 7.8	116 ± 9.7	120 ± 15.0	140 ± 7.7	131 ± 3.6
10000.0	123 ± 3.5	129 ± 7.9	130 ± 4.0	112 ± 2.4	128 ± 9.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1393 ± 56.8
Positive Control ³			808 ± 38.7		
Positive Control ⁴	1187 ± 15.9	868 ± 25.6			
Positive Control ⁵				838 ± 37.4	

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Time Report Requested: 09:25:36

Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	131 ± 2.4
100.0	129 ± 9.4
333.0	125 ± 3.2
1000.0	109 ± 12.3
3333.0	108 ± 3.8
10000.0	111 ± 3.1
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1250 ± 62.8
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.9	11 ± 1.9	6 ± 0.6	11 ± 1.2	8 ± 1.2
100.0	8 ± 0.7	8 ± 2.4	10 ± 2.9	11 ± 1.2	10 ± 2.0
333.0	8 ± 0.7	7 ± 0.9	9 ± 2.9	9 ± 0.6	7 ± 1.3
1000.0	8 ± 1.2	8 ± 1.7	12 ± 2.2	11 ± 0.9	6 ± 0.7
3333.0	7 ± 0.6	12 ± 3.0	10 ± 1.2	9 ± 2.6	11 ± 1.7
10000.0	7 ± 0.6	11 ± 1.5	10 ± 0.9	9 ± 0.9	9 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					310 ± 4.6
Positive Control ⁴	1158 ± 92.7	1102 ± 13.9			
Positive Control ⁵			261 ± 20.0		
Positive Control ⁶				131 ± 16.3	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 1.5
100.0	9 ± 0.3
333.0	9 ± 1.7
1000.0	9 ± 0.7
3333.0	9 ± 1.5
10000.0	8 ± 1.2
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	176 ± 15.0
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	151 ± 8.7	155 ± 12.8	198 ± 11.7	169 ± 12.7	183 ± 9.2
100.0	144 ± 7.8	174 ± 6.1	176 ± 5.5	194 ± 8.0	166 ± 7.5
333.0	163 ± 5.0	177 ± 12.1	186 ± 4.6	179 ± 8.7	178 ± 8.3
1000.0	174 ± 1.9	172 ± 0.6	190 ± 11.4	166 ± 9.4	191 ± 9.1
3333.0	165 ± 4.0	192 ± 4.4	191 ± 11.7	168 ± 10.3	202 ± 18.7
10000.0	174 ± 8.6	169 ± 11.9	197 ± 10.7	174 ± 8.5	190 ± 8.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1167 ± 40.4
Positive Control ³			868 ± 17.7		
Positive Control ⁵				622 ± 2.3	
Positive Control ⁷	596 ± 16.2	775 ± 26.8			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	187 ± 7.2
100.0	189 ± 3.7
333.0	193 ± 19.2
1000.0	178 ± 10.3
3333.0	202 ± 10.4
10000.0	198 ± 2.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	905 ± 7.8
Positive Control ⁵	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 3.0	15 ± 1.2	21 ± 1.5	20 ± 2.3	27 ± 2.0
100.0	19 ± 2.0	19 ± 0.9	14 ± 1.5	25 ± 3.8	23 ± 1.2
333.0	15 ± 2.6	18 ± 3.2	21 ± 3.0	25 ± 2.3	21 ± 2.3
1000.0	21 ± 1.7	21 ± 3.7	18 ± 2.4	22 ± 2.1	26 ± 1.2
3333.0	21 ± 4.0	15 ± 1.2	21 ± 4.1	21 ± 3.7	27 ± 0.3
10000.0	19 ± 2.6	19 ± 1.3	19 ± 3.2	17 ± 1.5	19 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1518 ± 70.7
Positive Control ³			668 ± 49.7		
Positive Control ⁸	422 ± 9.0	465 ± 29.1			
Positive Control ⁵				513 ± 31.9	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	25 ± 2.4
100.0	21 ± 0.0
333.0	24 ± 2.9
1000.0	21 ± 4.4
3333.0	25 ± 3.7
10000.0	17 ± 2.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	904 ± 33.8
Positive Control ⁸	
Positive Control ⁵	

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Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	225 ± 14.6	196 ± 10.1	225 ± 32.6	296 ± 14.2	267 ± 1.5
100.0	246 ± 16.2	175 ± 16.8	257 ± 9.7	281 ± 9.1	245 ± 28.9
333.0	193 ± 9.3	150 ± 14.2	241 ± 5.2	298 ± 10.2	236 ± 28.9
1000.0	223 ± 11.3	168 ± 9.7	232 ± 23.1	300 ± 28.1	237 ± 30.4
3333.0	229 ± 14.4	149 ± 13.7	226 ± 31.3	258 ± 40.8	242 ± 35.5
10000.0	229 ± 9.5	183 ± 10.1	227 ± 3.9	279 ± 33.8	230 ± 23.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹	1121 ± 48.5	1111 ± 52.3			
Positive Control ⁶			1392 ± 25.3		1618 ± 17.4
Positive Control ¹⁰				1259 ± 41.9	

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Strain: TA102

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	304 ± 8.9
100.0	305 ± 13.0
333.0	292 ± 16.4
1000.0	299 ± 21.7
3333.0	294 ± 32.0
10000.0	298 ± 13.0
Trial Summary	Negative
Positive Control ⁹	
Positive Control ⁶	
Positive Control ¹⁰	1466 ± 40.0

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Strain: TA104

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	330 ± 10.5	275 ± 5.3	332 ± 12.6	426 ± 15.8	362 ± 8.8
100.0	332 ± 17.7	269 ± 18.7	357 ± 16.8	435 ± 11.6	334 ± 7.3
333.0	341 ± 15.5	262 ± 12.7	369 ± 25.2	406 ± 10.7	366 ± 16.3
1000.0	324 ± 2.6	223 ± 28.2	283 ± 33.6	430 ± 42.5	385 ± 10.2
3333.0	307 ± 21.8	277 ± 15.5	305 ± 7.8	415 ± 52.7	341 ± 23.4
10000.0	330 ± 28.9	240 ± 14.5	323 ± 9.8	385 ± 21.1	348 ± 22.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁵			1042 ± 23.1		1205 ± 4.1
Positive Control ⁶				1260 ± 138.7	
Positive Control ¹¹	1355 ± 33.5	766 ± 38.1			

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Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	408 ± 17.1
100.0	410 ± 35.2
333.0	465 ± 18.8
1000.0	444 ± 30.7
3333.0	424 ± 29.9
10000.0	401 ± 24.0
Trial Summary	Negative
Positive Control ⁵	
Positive Control ⁶	1388 ± 49.0
Positive Control ¹¹	

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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: 2.0 ug/Plate 2-Aminoanthracene
- 4: 5.0 ug/Plate Sodium Azide
- 5: 5.0 ug/Plate 2-Aminoanthracene
- 6: 10.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- 9: 0.5 ug/Plate Mitomycin-C
- 10: 20.0 ug/Plate 2-Aminoanthracene
- 11: 250.0 ug/Plate Methyl Methane Sulfonate

**** END OF REPORT ****