

Experiment Number: A72526

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

G06: Ames Summary Data

Test Compound: **Phenothiazine**

CAS Number: **92-84-2**

Date Report Requested: **09/17/2018**

Time Report Requested: **18:52:03**

NTP Study Number:

A72526

Study Result:

Negative

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Test Compound: Phenothiazine

CAS Number: 92-84-2

Date Report Requested: 09/17/2018

Time Report Requested: 18:52:03

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	115 ± 4.0	137 ± 3.9	112 ± 3.3	116 ± 2.4	122 ± 3.0
33.0	90 ± 0.3	133 ± 2.7			141 ± 3.2
100.0	142 ± 1.9	121 ± 3.2	106 ± 8.2	110 ± 2.5	124 ± 2.6
333.0	136 ± 4.3	134 ± 5.5	101 ± 3.5	110 ± 7.4	110 ± 5.3
1000.0	135 ± 7.8 ^P	125 ± 1.7 ^P	118 ± 3.8 ^P	114 ± 8.7 ^P	122 ± 4.0 ^P
3333.0	134 ± 3.2 ^P	123 ± 4.1 ^P	111 ± 1.5 ^P	109 ± 6.4 ^P	109 ± 5.5 ^P
10000.0		124 ± 15.0 ^P	114 ± 3.0 ^P	107 ± 0.7 ^P	
Trial Summary	Equivocal	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³				721 ± 16.8	
Positive Control ⁴	878 ± 19.5	855 ± 24.8	931 ± 9.0		
Positive Control ⁵					570 ± 11.9

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	122 ± 8.4	110 ± 8.7
33.0		131 ± 9.2
100.0	118 ± 6.7	129 ± 5.2
333.0	119 ± 2.4	117 ± 8.4
1000.0	121 ± 4.0 ^P	114 ± 6.7 ^P
3333.0	119 ± 11.0 ^P	93 ± 3.2 ^P
10000.0	115 ± 2.0 ^P	
Trial Summary	Negative	Negative
Positive Control ²	767 ± 15.4	
Positive Control ³		620 ± 12.8
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	11 ± 1.7	13 ± 2.8	13 ± 2.7	16 ± 1.5	16 ± 2.6
33.0	10 ± 0.3			16 ± 1.9	
100.0	14 ± 0.9	11 ± 1.2	14 ± 2.7	11 ± 1.7	11 ± 0.6
333.0	9 ± 4.6	15 ± 0.0	11 ± 2.0	12 ± 0.9	14 ± 2.5
1000.0	10 ± 0.6 ^P	12 ± 0.0 ^P	14 ± 0.6 ^P	15 ± 1.5 ^P	13 ± 1.5 ^P
3333.0	16 ± 1.8 ^P	12 ± 2.6 ^P	16 ± 2.4 ^P	16 ± 1.8 ^P	10 ± 1.7 ^P
10000.0	9 ± 0.7 ^P	15 ± 2.0 ^P	10 ± 1.7 ^P	11 ± 1.3 ^P	12 ± 2.7 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					169 ± 10.5
Positive Control ⁴	939 ± 17.8	960 ± 10.4			
Positive Control ⁵			135 ± 12.6		
Positive Control ⁶				107 ± 7.2	

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Test Compound: Phenothiazine
CAS Number: 92-84-2

Date Report Requested: 09/17/2018
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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 2.3
33.0	11 ± 2.0
100.0	14 ± 2.1
333.0	11 ± 1.5
1000.0	13 ± 1.5 ^P
3333.0	13 ± 2.4 ^P
10000.0	16 ± 0.9 ^P
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	103 ± 4.6
Positive Control ⁶	

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Date Report Requested: 09/17/2018

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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	130 ± 3.3	124 ± 3.7	154 ± 11.8	138 ± 2.0	150 ± 7.0
33.0	134 ± 2.9			134 ± 3.4	
100.0	121 ± 3.2	139 ± 6.7	145 ± 9.5	149 ± 2.0	150 ± 13.3
333.0	144 ± 7.2	132 ± 7.8	146 ± 9.9	135 ± 2.3	147 ± 5.8
1000.0	135 ± 3.0 ^P	124 ± 8.4 ^P	149 ± 8.1 ^P	134 ± 10.7 ^P	158 ± 2.3 ^P
3333.0	117 ± 6.1 ^P	132 ± 11.5 ^P	137 ± 6.4 ^P	132 ± 10.0 ^P	151 ± 3.8 ^P
10000.0	117 ± 1.9 ^P	124 ± 3.2 ^P	121 ± 2.5 ^P	117 ± 6.7 ^P	141 ± 5.8 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					619 ± 10.7
Positive Control ³			551 ± 24.5		
Positive Control ⁵				552 ± 12.6	
Positive Control ⁷	448 ± 29.6	558 ± 19.5			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	138 ± 8.4
33.0	133 ± 5.2
100.0	147 ± 2.2
333.0	133 ± 15.3
1000.0	135 ± 4.9 ^p
3333.0	144 ± 4.3 ^p
10000.0	149 ± 12.2 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	593 ± 13.8
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	19 ± 1.8	21 ± 4.8	33 ± 2.3	23 ± 1.8	29 ± 2.2
33.0	24 ± 2.2			20 ± 0.9	
100.0	24 ± 1.2	25 ± 3.3	27 ± 4.2	19 ± 4.2	27 ± 2.4
333.0	19 ± 3.5	23 ± 1.2	28 ± 3.1	22 ± 1.3	27 ± 1.5
1000.0	20 ± 1.5 ^p	23 ± 0.9 ^p	17 ± 2.3 ^p	20 ± 1.2 ^p	21 ± 3.7 ^p
3333.0	19 ± 1.2 ^p	26 ± 3.6 ^p	26 ± 1.0 ^p	15 ± 1.2 ^p	21 ± 2.7 ^p
10000.0		25 ± 2.0 ^p	22 ± 3.2 ^p		24 ± 2.6 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					604 ± 4.9
Positive Control ³			541 ± 19.1		
Positive Control ⁸	500 ± 14.2	407 ± 29.1			
Positive Control ⁵				449 ± 16.3	

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Test Compound: Phenothiazine
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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	20 ± 2.5	29 ± 1.8
33.0	17 ± 1.5	34 ± 2.2
100.0	35 ± 10.2	24 ± 1.5
333.0	41 ± 1.2	30 ± 6.6
1000.0	37 ± 1.0 ^p	26 ± 1.0 ^p
3333.0	22 ± 2.0 ^p	30 ± 1.5 ^p
10000.0		22 ± 2.3 ^p
Trial Summary	Equivocal	Negative
Positive Control ²		
Positive Control ³	561 ± 10.4	446 ± 20.2
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	183 ± 13.5	192 ± 12.5	235 ± 12.0	252 ± 15.7	257 ± 13.7
100.0	203 ± 9.5	192 ± 10.0	229 ± 26.3	278 ± 11.6	228 ± 10.0
333.0	186 ± 20.1	171 ± 7.6	251 ± 8.4	260 ± 11.8	248 ± 3.2
1000.0	173 ± 14.1 ^P	180 ± 8.1 ^P	217 ± 0.7 ^P	239 ± 19.4 ^P	273 ± 2.8 ^P
3333.0	209 ± 20.5 ^P	176 ± 14.6 ^P	264 ± 8.7 ^P	243 ± 18.0 ^P	267 ± 25.2 ^P
10000.0	175 ± 14.0 ^P	178 ± 11.3 ^P	214 ± 7.4 ^P	257 ± 22.9 ^P	241 ± 20.3 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹	700 ± 18.9				
Positive Control ¹⁰		788 ± 31.0			
Positive Control ⁶			946 ± 21.3		961 ± 19.1
Positive Control ¹¹				913 ± 10.4	

Experiment Number: A72526

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Test Compound: Phenothiazine

CAS Number: 92-84-2

Date Report Requested: 09/17/2018

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Strain: TA102

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	261 ± 15.3
100.0	248 ± 15.6
333.0	250 ± 3.2
1000.0	273 ± 16.4 ^p
3333.0	281 ± 6.5 ^p
10000.0	242 ± 18.8 ^p
Trial Summary	Negative
Positive Control ⁹	
Positive Control ¹⁰	
Positive Control ⁶	
Positive Control ¹¹	968 ± 21.7

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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	317 ± 12.1	316 ± 6.0	417 ± 3.8	372 ± 28.5	413 ± 21.4
100.0	317 ± 9.4	319 ± 1.8	421 ± 2.0	420 ± 6.8	423 ± 24.9
333.0	288 ± 5.5	304 ± 9.2	363 ± 27.9	403 ± 8.4	420 ± 11.2
1000.0	262 ± 25.3 ^P	346 ± 27.4 ^P	379 ± 9.7 ^P	387 ± 4.9 ^P	374 ± 29.5 ^P
3333.0	285 ± 19.1 ^P	277 ± 4.9 ^P	367 ± 28.8 ^P	392 ± 9.4 ^P	425 ± 30.7 ^P
10000.0	259 ± 37.6 ^P	311 ± 8.7 ^P	392 ± 6.5 ^P	383 ± 26.8 ^P	391 ± 8.1 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁶		933 ± 21.2	1107 ± 52.0	1076 ± 32.3	1216 ± 19.5
Positive Control ¹²	835 ± 20.2				

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Strain: TA104

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	370 ± 30.6
100.0	385 ± 13.9
333.0	347 ± 18.0
1000.0	366 ± 11.4 ^P
3333.0	392 ± 16.4 ^P
10000.0	361 ± 22.7 ^P
Trial Summary	Negative
Positive Control ⁶	1182 ± 9.8
Positive Control ¹²	

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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: 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: 2.5 ug/Plate Mitomycin-C

11: 10.0 ug/Plate Trypan Blue

12: 250.0 ug/Plate Methyl Methane Sulfonate

p: Precipitate

**** END OF REPORT ****