

Experiment Number: A39701

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

G06: Ames Summary Data

Test Compound: **Pyrazineethanethiol**

CAS Number: **35250-53-4**

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

Time Report Requested: **21:30:45**

NTP Study Number:

A39701

Study Result:

Negative

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Test Compound: Pyrazineethanethiol

CAS Number: 35250-53-4

Date Report Requested: 09/16/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	116 ± 3.5	121 ± 3.9	117 ± 4.9	127 ± 6.7	128 ± 5.5
100.0	131 ± 2.8	115 ± 5.2	124 ± 14.8	117 ± 3.7	129 ± 0.3
333.0	118 ± 1.5	108 ± 2.6	112 ± 3.8	131 ± 4.3	132 ± 8.6
1000.0	110 ± 5.0	108 ± 4.7	121 ± 3.8	129 ± 4.6	112 ± 4.3
3333.0	116 ± 2.2	100 ± 6.7	109 ± 0.3	127 ± 12.3	125 ± 4.3
10000.0	117 ± 1.7	107 ± 4.7	108 ± 2.8	126 ± 5.8	124 ± 6.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					524 ± 13.0
Positive Control ³			499 ± 7.2		
Positive Control ⁴	910 ± 17.0	976 ± 33.0			
Positive Control ⁵				407 ± 8.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	119 ± 4.2
100.0	127 ± 2.3
333.0	130 ± 5.0
1000.0	123 ± 3.5
3333.0	113 ± 6.2
10000.0	119 ± 2.6
Trial Summary	Negative
Positive Control ²	
Positive Control ³	458 ± 20.2
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	14 ± 0.9	8 ± 0.9	11 ± 0.9	16 ± 0.9	10 ± 0.6
0.0			0 ± 0.0		
100.0	12 ± 0.3	8 ± 0.3	10 ± 1.0	14 ± 2.4	9 ± 0.6
333.0	11 ± 0.7	10 ± 0.3	9 ± 0.6	12 ± 1.2	8 ± 0.7
1000.0	11 ± 1.7	8 ± 0.6	9 ± 0.7	13 ± 0.9	12 ± 3.4
3333.0	11 ± 0.7	8 ± 0.7	10 ± 1.3	15 ± 1.0	9 ± 0.7
10000.0	10 ± 1.3	7 ± 0.3	11 ± 0.9	13 ± 1.5	9 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					230 ± 7.5
Positive Control ⁴	825 ± 18.3	816 ± 24.4			
Positive Control ⁵			392 ± 229.9		
Positive Control ⁶				152 ± 14.8	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	15 ± 1.5
0.0	
100.0	15 ± 1.5
333.0	15 ± 0.6
1000.0	14 ± 1.7
3333.0	16 ± 3.3
10000.0	10 ± 0.6
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	202 ± 12.1
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	156 ± 4.0	144 ± 8.4	161 ± 8.8	159 ± 6.1	165 ± 5.8
100.0	158 ± 10.2	145 ± 3.3	153 ± 5.8	167 ± 5.0	163 ± 11.1
333.0	146 ± 10.1	147 ± 5.2	165 ± 10.1	169 ± 2.6	154 ± 4.1
1000.0	162 ± 6.3	141 ± 12.1	152 ± 2.5	166 ± 9.6	155 ± 5.5
3333.0	155 ± 3.8	147 ± 8.7	149 ± 6.6	163 ± 3.2	149 ± 8.7
10000.0	162 ± 3.7	158 ± 4.7	155 ± 5.8	174 ± 2.3	137 ± 11.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					449 ± 14.9
Positive Control ³			363 ± 21.1		
Positive Control ⁵				363 ± 21.7	
Positive Control ⁷	373 ± 13.7	368 ± 14.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	158 ± 5.2
100.0	145 ± 3.7
333.0	161 ± 7.3
1000.0	162 ± 1.5
3333.0	147 ± 7.5
10000.0	166 ± 2.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	399 ± 12.0
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	14 ± 1.2	21 ± 1.5	19 ± 1.9	15 ± 1.5	17 ± 0.6
100.0	14 ± 0.9	19 ± 0.7	19 ± 0.3	16 ± 1.2	19 ± 0.3
333.0	16 ± 1.3	16 ± 3.0	17 ± 0.9	20 ± 3.1	18 ± 1.3
1000.0	15 ± 2.7	17 ± 0.7	19 ± 1.2	17 ± 5.5	17 ± 0.6
3333.0	16 ± 1.2	18 ± 0.3	14 ± 2.1	18 ± 2.1	13 ± 1.0
10000.0	13 ± 2.8	16 ± 0.6	19 ± 0.3	19 ± 2.0	18 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					418 ± 11.6
Positive Control ³			350 ± 15.1		
Positive Control ⁸	440 ± 19.2	327 ± 23.7			
Positive Control ⁵				307 ± 39.2	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	21 ± 3.7
100.0	24 ± 1.5
333.0	25 ± 1.5
1000.0	23 ± 3.5
3333.0	19 ± 1.9
10000.0	18 ± 0.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	287 ± 7.0
Positive Control ⁸	
Positive Control ⁵	

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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

**** END OF REPORT ****