

Experiment Number: 563342

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

G06: Ames Summary Data

Test Compound: **2-Amino-4-thiazoleacetic acid**

CAS Number: **29676-71-9**

Date Report Requested: **09/13/2018**

Time Report Requested: **22:57:31**

NTP Study Number:

563342

Study Result:

Equivocal

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Test Compound: 2-Amino-4-thiazoleacetic acid
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Date Report Requested: 09/13/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 5% Hamster S9
Vehicle Control ¹	127 ± 10.2	111 ± 8.2	106 ± 4.2	144 ± 9.8	136 ± 4.0
100.0	118 ± 9.8	109 ± 8.0	114 ± 11.7	139 ± 8.0	
333.0	99 ± 3.2	100 ± 10.2	116 ± 4.4	125 ± 7.0	
1000.0	113 ± 6.7	103 ± 13.9	116 ± 11.2	138 ± 1.8	160 ± 10.2
1666.0					158 ± 11.9
3333.0	97 ± 9.8	104 ± 5.6	111 ± 12.5	108 ± 11.9	155 ± 5.7
6666.0					156 ± 3.5
10000.0	91 ± 9.7	112 ± 7.2	103 ± 9.1	128 ± 3.5	156 ± 7.4
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					786 ± 1.7
Positive Control ³			413 ± 6.9		
Positive Control ⁴	462 ± 27.2	364 ± 7.9			
Positive Control ⁵				517 ± 7.9	

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	99 ± 8.1	153 ± 13.3	115 ± 6.7	126 ± 11.0
100.0	108 ± 3.8		148 ± 10.8	
333.0	109 ± 5.3		132 ± 5.9	
1000.0	122 ± 5.2	161 ± 1.3	127 ± 1.5	160 ± 15.7
1666.0		176 ± 7.0		183 ± 3.2
3333.0	117 ± 9.4	169 ± 3.6	132 ± 5.5	166 ± 10.1
6666.0		169 ± 7.7		160 ± 7.6
10000.0	136 ± 2.6	183 ± 2.4	155 ± 3.2	175 ± 2.6
Trial Summary	Equivocal	Negative	Equivocal	Equivocal
Positive Control ²	568 ± 50.9	526 ± 21.8		
Positive Control ³			715 ± 17.0	719 ± 9.7
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 5% Hamster S9
Vehicle Control ¹	19 ± 1.9	16 ± 1.5	13 ± 0.7	19 ± 0.9	13 ± 1.5
100.0	12 ± 1.7	19 ± 1.0	13 ± 1.2	17 ± 2.4	
333.0	12 ± 3.1	14 ± 0.3	10 ± 1.2	13 ± 3.0	
1000.0	9 ± 1.2	15 ± 1.2	9 ± 0.3	16 ± 1.5	9 ± 0.7
1666.0					17 ± 1.2
3333.0	13 ± 2.2	11 ± 1.5	10 ± 1.5	11 ± 2.0	13 ± 1.9
6666.0					17 ± 2.3
10000.0	11 ± 0.7	13 ± 1.0	11 ± 1.7	12 ± 1.2	19 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					182 ± 12.7
Positive Control ⁴	269 ± 8.7	306 ± 11.8			
Positive Control ⁵			139 ± 14.2		
Positive Control ⁶				89 ± 14.2	

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Strain: TA1535

Dose (ug/Plate)	With 5% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	7 ± 1.5	8 ± 3.0	9 ± 1.5	11 ± 0.3	13 ± 3.5
100.0		8 ± 0.9		13 ± 2.3	
333.0		11 ± 3.3			
1000.0	9 ± 2.2	9 ± 1.5	14 ± 1.7		14 ± 3.3
1666.0	7 ± 1.2		11 ± 1.2	13 ± 2.0	10 ± 1.7
3333.0	7 ± 0.9	20 ± 6.4	18 ± 2.3	17 ± 3.8	11 ± 1.0
6666.0	6 ± 1.2		23 ± 1.0	12 ± 2.0	10 ± 1.5
10000.0	8 ± 0.3	32 ± 5.6	38 ± 4.6	16 ± 1.7	10 ± 0.3
Trial Summary	Negative	Positive	Positive	Negative	Negative
Positive Control ³	162 ± 12.1	179 ± 2.6	171 ± 12.0		230 ± 15.3
Positive Control ⁴					
Positive Control ⁵				124 ± 10.2	
Positive Control ⁶					

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	14 ± 0.9	14 ± 1.5
100.0	11 ± 2.2	
333.0	12 ± 2.2	
1000.0	9 ± 2.8	17 ± 0.7
1666.0		12 ± 2.5
3333.0	13 ± 2.5	13 ± 1.9
6666.0		19 ± 1.8
10000.0	19 ± 1.5	13 ± 2.1
Trial Summary	Negative	Negative
Positive Control ³		
Positive Control ⁴		
Positive Control ⁵	411 ± 12.3	340 ± 2.0
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	148 ± 7.4	132 ± 8.4	159 ± 2.3	190 ± 6.7	158 ± 3.5
100.0	151 ± 13.6	145 ± 2.6	173 ± 15.2	206 ± 4.6	179 ± 10.9
333.0	163 ± 7.0	159 ± 5.0	199 ± 2.6	201 ± 9.8	173 ± 6.1
1000.0	157 ± 4.5	166 ± 8.2	186 ± 10.1	195 ± 11.5	168 ± 8.3
3333.0	122 ± 10.3	148 ± 4.3	177 ± 16.3	213 ± 4.3	172 ± 3.0
10000.0	106 ± 14.7	134 ± 10.4	156 ± 8.8	205 ± 8.0	158 ± 2.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					395 ± 1.2
Positive Control ³			338 ± 9.2		
Positive Control ⁵				283 ± 13.4	
Positive Control ⁷	331 ± 13.6	420 ± 28.0			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	147 ± 3.5
100.0	170 ± 20.7
333.0	163 ± 5.8
1000.0	136 ± 11.3
3333.0	185 ± 19.4
10000.0	194 ± 6.0
Trial Summary	Equivocal
Positive Control ²	
Positive Control ³	451 ± 5.0
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	17 ± 1.2	15 ± 2.5	32 ± 2.6	48 ± 5.9	28 ± 0.3
100.0	18 ± 1.2	14 ± 1.0	17 ± 1.2	37 ± 2.1	27 ± 1.8
333.0	21 ± 4.3	16 ± 2.7	19 ± 0.6	34 ± 7.0	24 ± 2.0
1000.0	18 ± 3.4	16 ± 1.2	23 ± 1.7	37 ± 0.9	31 ± 2.5
3333.0	18 ± 0.7	12 ± 0.6	20 ± 3.8	42 ± 5.0	25 ± 0.0
10000.0	23 ± 1.2	20 ± 1.8	25 ± 1.0	32 ± 3.5	22 ± 3.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					351 ± 26.1
Positive Control ³			273 ± 3.8	158 ± 5.8	
Positive Control ⁸	619 ± 16.5	535 ± 24.1			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	27 ± 1.0
100.0	24 ± 4.2
333.0	26 ± 0.6
1000.0	25 ± 4.1
3333.0	23 ± 2.1
10000.0	22 ± 3.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	487 ± 27.5
Positive Control ⁸	

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****