

Experiment Number: 970107

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: **09/17/2018**

Time Report Requested: **22:48:40**

**NTP Study Number:**

970107

**Study Result:**

Equivocal

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Test Compound: 2-Amino-4-thiazoleacetic acid  
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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 <sup>1</sup>	151 ± 4.4	116 ± 10.0	129 ± 13.4	162 ± 2.7	134 ± 18.6
100.0	141 ± 9.5	114 ± 6.7	123 ± 4.3	157 ± 9.0	147 ± 8.3
333.0	133 ± 12.4	102 ± 7.0	119 ± 7.1	150 ± 5.8	166 ± 10.4
1000.0	161 ± 4.0	98 ± 9.0	116 ± 13.6	149 ± 8.1	167 ± 9.6
3333.0	146 ± 6.2	107 ± 9.8	152 ± 4.2	155 ± 4.3	169 ± 7.5
10000.0	131 ± 4.9	100 ± 8.0	136 ± 3.4	152 ± 7.8	174 ± 6.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					856 ± 29.2
Positive Control <sup>3</sup>			633 ± 18.7		
Positive Control <sup>4</sup>	440 ± 14.7	433 ± 32.1			
Positive Control <sup>5</sup>				454 ± 73.8	

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	171 ± 8.0
100.0	166 ± 10.4
333.0	157 ± 3.5
1000.0	177 ± 3.3
3333.0	177 ± 2.6
10000.0	179 ± 5.2
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	651 ± 26.5
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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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 <sup>6</sup>					
Vehicle Control <sup>1</sup>	25 ± 0.3	13 ± 2.3	6 ± 1.5	15 ± 2.0	13 ± 1.2
100.0	13 ± 3.5	15 ± 2.0	11 ± 2.0	15 ± 2.2	
333.0	17 ± 1.0	14 ± 2.9	8 ± 1.7	12 ± 1.8	9 ± 0.9
1000.0	13 ± 0.7	14 ± 0.3	8 ± 0.9	16 ± 0.9	10 ± 3.2
3333.0	12 ± 3.0	13 ± 0.6	12 ± 0.9	11 ± 1.0	12 ± 1.2
6666.0					12 ± 0.7
10000.0	10 ± 2.4	6 ± 1.0	12 ± 2.1	18 ± 1.0	13 ± 1.0
15000.0					
20000.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					145 ± 17.1
Positive Control <sup>4</sup>	566 ± 30.8	333 ± 14.0			
Positive Control <sup>7</sup>			153 ± 6.6		
Positive Control <sup>8</sup>				182 ± 10.0	

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## Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>6</sup>					
Vehicle Control <sup>1</sup>	9 ± 3.5	10 ± 2.1	13 ± 1.2	9 ± 1.5	14 ± 1.7
100.0		10 ± 3.7	14 ± 0.6		
333.0	11 ± 2.1	9 ± 1.3	14 ± 0.9	9 ± 2.1	12 ± 0.3
1000.0	8 ± 1.9	9 ± 2.0	13 ± 2.5	14 ± 0.6	20 ± 0.6
3333.0	11 ± 1.8	10 ± 1.2	20 ± 0.9	16 ± 1.7	11 ± 3.4
6666.0	9 ± 1.3			22 ± 2.6	13 ± 2.3
10000.0	17 ± 1.2	18 ± 3.2	27 ± 1.2	36 ± 0.9	24 ± 1.7
15000.0					
20000.0					33 ± 0.6
Trial Summary	Negative	Negative	Equivocal	Positive	Equivocal
Positive Control <sup>3</sup>	116 ± 7.4	247 ± 21.4			
Positive Control <sup>4</sup>					
Positive Control <sup>7</sup>			372 ± 14.3	310 ± 27.1	439 ± 14.0
Positive Control <sup>8</sup>					

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## Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>6</sup>			14 ± 2.1
Vehicle Control <sup>1</sup>	13 ± 1.0	15 ± 2.6	
100.0			
333.0		12 ± 2.9	12 ± 1.5
1000.0		14 ± 1.9	14 ± 1.5
3333.0	20 ± 2.3	15 ± 1.2	18 ± 1.3
6666.0	25 ± 3.0	13 ± 3.6	20 ± 2.5
10000.0	33 ± 2.1	23 ± 2.4	23 ± 3.0
15000.0	28 ± 5.2		
20000.0	25 ± 4.4		
Trial Summary	Equivocal	Negative	Negative
Positive Control <sup>3</sup>			
Positive Control <sup>4</sup>			
Positive Control <sup>7</sup>	182 ± 25.6	326 ± 37.3	428 ± 32.6
Positive Control <sup>8</sup>			

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**Strain: TA1537**

<b>Dose (ug/Plate)</b>	<b>Without S9</b>	<b>With 30% Rat S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	7 ± 2.6	11 ± 2.4	11 ± 1.2
100.0	6 ± 0.9	10 ± 2.4	8 ± 0.7
333.0	7 ± 2.5	13 ± 2.1	12 ± 0.9
1000.0	6 ± 0.9	11 ± 1.7	10 ± 2.5
3333.0	7 ± 0.3	12 ± 1.5	12 ± 0.0
10000.0	8 ± 0.3	6 ± 0.6	13 ± 0.3
Trial Summary	Negative	Negative	Negative
Positive Control <sup>3</sup>			45 ± 2.0
Positive Control <sup>7</sup>		59 ± 1.5	
Positive Control <sup>9</sup>	381 ± 86.9		

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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 <sup>1</sup>	148 ± 6.4	113 ± 2.4	117 ± 9.9	154 ± 15.1	148 ± 19.7
100.0	179 ± 18.7	134 ± 14.2	123 ± 5.5	183 ± 12.0	159 ± 8.8
333.0	173 ± 3.5	114 ± 8.5	134 ± 4.2	197 ± 3.2	211 ± 12.2
1000.0	151 ± 4.0	112 ± 1.2	148 ± 3.2	150 ± 1.0	199 ± 19.0
3333.0	200 ± 5.8	118 ± 9.5	141 ± 3.5	99 ± 9.2	199 ± 12.7
10000.0	177 ± 8.1	80 ± 18.4	148 ± 2.5	87 ± 5.9	203 ± 6.7
Trial Summary	Equivocal	Negative	Equivocal	Negative	Equivocal
Positive Control <sup>2</sup>					425 ± 22.4
Positive Control <sup>3</sup>			354 ± 1.9		
Positive Control <sup>7</sup>				493 ± 14.3	
Positive Control <sup>9</sup>	614 ± 11.7	705 ± 46.8			



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**Strain: TA97**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	183 ± 4.4
100.0	187 ± 4.8
333.0	186 ± 9.3
1000.0	202 ± 2.0
3333.0	194 ± 2.7
10000.0	181 ± 5.2
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	353 ± 0.9
Positive Control <sup>7</sup>	
Positive Control <sup>9</sup>	

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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 <sup>1</sup>	22 ± 1.5	18 ± 3.5	25 ± 0.6	43 ± 1.9	23 ± 2.9
100.0	29 ± 0.9	13 ± 2.5	22 ± 7.5	41 ± 0.7	35 ± 2.8
333.0	27 ± 1.3	14 ± 1.2	36 ± 13.1	40 ± 1.5	32 ± 3.8
1000.0	23 ± 4.2	17 ± 0.7	18 ± 0.3	28 ± 2.0	30 ± 4.0
3333.0	22 ± 1.2	15 ± 1.9	21 ± 2.5	34 ± 3.8	32 ± 6.1
10000.0	28 ± 3.5	14 ± 2.4	28 ± 2.2	30 ± 4.4	37 ± 3.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					573 ± 16.2
Positive Control <sup>3</sup>			393 ± 12.9	112 ± 5.3	
Positive Control <sup>10</sup>	580 ± 42.2	420 ± 19.4			

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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	43 ± 1.2
100.0	35 ± 7.2
333.0	39 ± 4.2
1000.0	36 ± 6.2
3333.0	43 ± 6.7
10000.0	42 ± 1.5
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	284 ± 5.2
Positive Control <sup>10</sup>	

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**LEGEND**

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.0 ug/Plate 2-Aminoanthracene

6: Vehicle Control: Dimethyl Sulfoxide

7: 2.5 ug/Plate 2-Aminoanthracene

8: 5.0 ug/Plate 2-Aminoanthracene

9: 50.0 ug/Plate 9-Aminoacridine

10: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**\*\* END OF REPORT \*\***