

Experiment Number: 147420

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

**G06: Ames Summary Data**

Test Compound: **2-Amino-4-chlorobenzothiazole**

CAS Number: **19952-47-7**

Date Report Requested: **09/12/2018**

Time Report Requested: **14:21:21**

**NTP Study Number:**

147420

**Study Result:**

Negative

Experiment Number: 147420

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## G06: Ames Summary Data

Test Compound: 2-Amino-4-chlorobenzothiazole

CAS Number: 19952-47-7

Date Report Requested: 09/12/2018

Time Report Requested: 14:21:21

## 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>	137 ± 15.4	128 ± 6.7	127 ± 6.9	141 ± 2.3	123 ± 8.5
3.0	139 ± 8.2	113 ± 11.3			
10.0	148 ± 13.9	123 ± 0.6	149 ± 12.4	141 ± 14.7	152 ± 16.6
33.0	132 ± 3.8	142 ± 5.2	134 ± 6.9	157 ± 4.0	131 ± 17.3
100.0	127 ± 7.8	124 ± 1.2	150 ± 5.4	149 ± 2.1	99 ± 6.8
333.0	108 ± 6.2	94 ± 8.0	128 ± 6.5	131 ± 2.9	91 ± 4.5
1000.0			95 ± 4.7	102 ± 5.5	74 ± 9.3
1666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					746 ± 15.9
Positive Control <sup>3</sup>			684 ± 19.0		
Positive Control <sup>4</sup>	528 ± 5.2	451 ± 24.9			
Positive Control <sup>5</sup>				457 ± 28.5	

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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 ± 3.8
3.0	
10.0	
33.0	174 ± 5.0
100.0	166 ± 5.2
333.0	147 ± 4.5
1000.0	85 ± 6.2
1666.0	58 ± 4.3 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	627 ± 6.1
Positive Control <sup>4</sup>	
Positive Control <sup>5</sup>	

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CAS Number: 19952-47-7

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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 <sup>1</sup>	24 ± 3.8	19 ± 1.7	7 ± 0.7	15 ± 3.7	7 ± 2.1
3.0	17 ± 1.2	23 ± 3.3			
10.0	17 ± 2.3	18 ± 4.3	10 ± 2.6	13 ± 3.0	7 ± 1.0
33.0	20 ± 2.9	17 ± 0.9	11 ± 1.3	14 ± 1.0	10 ± 3.3
100.0	17 ± 1.0	18 ± 1.2	12 ± 2.0	11 ± 1.3	8 ± 2.2
333.0	15 ± 1.8	15 ± 1.5	5 ± 1.5	8 ± 0.3	8 ± 1.3
1000.0			5 ± 1.5	8 ± 0.9	6 ± 0.9
1666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>3</sup>					185 ± 18.9
Positive Control <sup>4</sup>	495 ± 46.0	435 ± 14.5			
Positive Control <sup>6</sup>			179 ± 7.7		
Positive Control <sup>7</sup>				111 ± 4.2	

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	14 ± 0.7
3.0	
10.0	
33.0	11 ± 1.0
100.0	11 ± 3.0
333.0	7 ± 1.2
1000.0	4 ± 0.6
1666.0	3 ± 0.3 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	
Positive Control <sup>6</sup>	492 ± 48.5
Positive Control <sup>7</sup>	

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Test Compound: 2-Amino-4-chlorobenzothiazole

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	8 ± 0.7	6 ± 1.5	9 ± 2.0	11 ± 2.3	9 ± 1.3
3.0	8 ± 2.5	7 ± 1.3			
10.0	7 ± 1.5	12 ± 1.8	12 ± 2.7	12 ± 0.7	8 ± 0.9
33.0	9 ± 1.0	5 ± 1.2	10 ± 0.9	13 ± 1.5	5 ± 0.9
100.0	8 ± 1.5	7 ± 1.0	11 ± 1.0	14 ± 1.0	13 ± 5.8
333.0	6 ± 0.7	6 ± 0.9	4 ± 0.9	11 ± 1.5	9 ± 2.3
1000.0			6 ± 1.5	11 ± 3.5	8 ± 0.7
1666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					66 ± 0.9
Positive Control <sup>3</sup>			52 ± 2.0		
Positive Control <sup>6</sup>				51 ± 5.7	
Positive Control <sup>8</sup>	601 ± 51.8	385 ± 5.5			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	14 ± 0.3
3.0	
10.0	
33.0	16 ± 0.9
100.0	16 ± 1.5
333.0	7 ± 1.2
1000.0	10 ± 1.0
1666.0	3 ± 0.9 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	50 ± 1.7
Positive Control <sup>6</sup>	
Positive Control <sup>8</sup>	

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Test Compound: 2-Amino-4-chlorobenzothiazole

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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 ± 6.9	154 ± 15.7	159 ± 8.8	155 ± 24.7	171 ± 3.9
3.0	160 ± 12.2	149 ± 6.6			
10.0	161 ± 3.0	140 ± 11.7	171 ± 12.0	202 ± 10.1	168 ± 5.2
33.0	162 ± 10.4	142 ± 6.6	174 ± 5.8	198 ± 17.4	179 ± 9.3
100.0	128 ± 15.3	125 ± 7.5	170 ± 13.1	175 ± 5.3	157 ± 3.6
333.0	34 ± 8.8	63 ± 10.2	151 ± 10.4	159 ± 9.3	133 ± 5.4
1000.0			76 ± 19.9 <sup>s</sup>	99 ± 18.9	89 ± 8.0
1666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					519 ± 23.0
Positive Control <sup>3</sup>			434 ± 24.3		
Positive Control <sup>6</sup>				438 ± 14.1	
Positive Control <sup>8</sup>	584 ± 13.4	652 ± 1.2			



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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>	190 ± 6.9
3.0	
10.0	
33.0	189 ± 1.0
100.0	218 ± 8.8
333.0	137 ± 6.1
1000.0	69 ± 3.8
1666.0	35 ± 4.7 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	379 ± 7.2
Positive Control <sup>6</sup>	
Positive Control <sup>8</sup>	

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CAS Number: 19952-47-7

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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 <sup>1</sup>	26 ± 3.8	12 ± 2.2	21 ± 1.8	33 ± 3.8	26 ± 2.7
3.0	32 ± 2.0	18 ± 1.5			
10.0	31 ± 3.7	16 ± 1.9	21 ± 1.7	33 ± 5.6	30 ± 1.2
33.0	24 ± 3.8	17 ± 0.0	28 ± 4.9	39 ± 4.5	28 ± 4.1
100.0	21 ± 3.3	11 ± 1.8	32 ± 3.8	32 ± 2.8	29 ± 2.3
333.0	19 ± 0.9	10 ± 0.3	32 ± 6.4	26 ± 3.2	24 ± 1.5
1000.0			13 ± 6.4	21 ± 2.5	18 ± 1.3
1666.0					
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					490 ± 13.2
Positive Control <sup>3</sup>			373 ± 15.2	114 ± 13.0	
Positive Control <sup>9</sup>	603 ± 42.7	412 ± 8.5			

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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>	32 ± 3.6
3.0	
10.0	
33.0	33 ± 4.3
100.0	36 ± 5.4
333.0	32 ± 3.2
1000.0	26 ± 1.7
1666.0	7 ± 0.3 <sup>p</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	286 ± 11.4
Positive Control <sup>9</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: Dimethyl Sulfoxide

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.0 ug/Plate 2-Aminoanthracene

6: 2.5 ug/Plate 2-Aminoanthracene

7: 5.0 ug/Plate 2-Aminoanthracene

8: 50.0 ug/Plate 9-Aminoacridine

9: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

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