

Experiment Number: 702501

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2-Amino-6-nitrobenzothiazole

CAS Number: 6285-57-0

Date Report Requested: 09/12/2018

Time Report Requested: 12:36:49

**NTP Study Number:**

702501

**Study Result:**

Positive

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Test Compound: 2-Amino-6-nitrobenzothiazole  
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Date Report Requested: 09/12/2018

Time Report Requested: 12:36:49

## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	109 ± 12.7	126 ± 2.6	104 ± 5.6	140 ± 5.7	103 ± 13.2
0.3					170 ± 9.7
1.0					264 ± 4.4
3.0					534 ± 25.6
10.0	118 ± 9.1	119 ± 4.0	155 ± 10.6	193 ± 13.7	1190 ± 72.6
33.0	136 ± 8.2	140 ± 4.4	216 ± 4.4	223 ± 12.8	1759 ± 85.3
100.0	146 ± 5.5	150 ± 2.3	278 ± 18.1	278 ± 14.9	
333.0	196 ± 12.7	193 ± 10.1	321 ± 17.8	367 ± 22.6	
1000.0	254 ± 9.7 <sup>p</sup>	301 ± 14.1 <sup>p</sup>	422 ± 27.9 <sup>p</sup>	557 ± 9.8 <sup>p</sup>	
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>			642 ± 37.1	2048 ± 24.1	1335 ± 12.1
Positive Control <sup>3</sup>	373 ± 7.6	358 ± 9.2			

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**Strain: TA100**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	129 ± 8.7
0.3	160 ± 9.3
1.0	308 ± 12.5
3.0	650 ± 75.1
10.0	1107 ± 36.4
33.0	1873 ± 45.6
100.0	
333.0	
1000.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	1839 ± 27.2
Positive Control <sup>3</sup>	

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## Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 2.9	29 ± 2.7	9 ± 2.6	6 ± 0.3	8 ± 3.0
1.0					
3.0					
10.0		21 ± 4.4			
33.0		21 ± 2.6			
100.0	19 ± 0.3	19 ± 4.0	10 ± 3.3	7 ± 0.9	42 ± 7.1
333.0	15 ± 3.4	16 ± 2.1	10 ± 2.8	9 ± 2.3	27 ± 5.5
666.0				9 ± 2.4	
1000.0	10 ± 2.2 <sup>P</sup>	17 ± 4.7 <sup>P</sup>	14 ± 2.1 <sup>P</sup>	9 ± 1.5 <sup>P</sup>	16 ± 3.5 <sup>P</sup>
1666.0				7 ± 1.0 <sup>P</sup>	
3333.0	5 ± 0.9 <sup>P</sup>		7 ± 1.2 <sup>P</sup>		8 ± 2.1 <sup>P</sup>
10000.0	4 ± 0.6 <sup>P</sup>		8 ± 1.8 <sup>P</sup>		2 ± 0.6 <sup>P</sup>
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control <sup>3</sup>	157 ± 7.4	495 ± 29.4			
Positive Control <sup>4</sup>			122 ± 6.5	480 ± 50.8	339 ± 13.5

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**Strain: TA1535**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	8 ± 0.9
1.0	7 ± 1.2
3.0	7 ± 2.8
10.0	21 ± 2.0
33.0	36 ± 4.8
100.0	53 ± 5.8
333.0	
666.0	
1000.0	
1666.0	
3333.0	
10000.0	
Trial Summary	Positive
Positive Control <sup>3</sup>	
Positive Control <sup>4</sup>	613 ± 20.9

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## Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	6 ± 2.2	7 ± 1.3	4 ± 1.0	7 ± 2.0	9 ± 2.0
10.0					
33.0					
100.0	7 ± 1.7	9 ± 1.7	6 ± 0.0	13 ± 0.9	22 ± 2.2
333.0	8 ± 0.7	18 ± 1.5	12 ± 1.5	15 ± 2.2	27 ± 1.7
666.0		18 ± 2.5		22 ± 3.2	
1000.0	16 ± 3.2 <sup>p</sup>	14 ± 3.1 <sup>p</sup>	18 ± 2.6 <sup>p</sup>	19 ± 4.3 <sup>p</sup>	35 ± 5.2 <sup>p</sup>
1666.0		14 ± 3.0 <sup>p</sup>		15 ± 2.0 <sup>p</sup>	
3333.0	9 ± 1.5 <sup>p</sup>		14 ± 2.5 <sup>p</sup>		14 ± 2.0 <sup>p</sup>
10000.0	8 ± 2.5 <sup>p</sup>		10 ± 2.4 <sup>p</sup>		8 ± 0.0 <sup>p</sup>
Trial Summary	Negative	Equivocal	Equivocal	Weakly Positive	Positive
Positive Control <sup>4</sup>			140 ± 16.8	477 ± 25.3	369 ± 10.7
Positive Control <sup>5</sup>	250 ± 33.6	235 ± 50.6			

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**Strain: TA1537**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	9 ± 2.1
10.0	14 ± 0.3
33.0	11 ± 2.2
100.0	19 ± 0.9
333.0	28 ± 5.8
666.0	
1000.0	22 ± 2.5 <sup>p</sup>
1666.0	
3333.0	
10000.0	
Trial Summary	Weakly Positive
Positive Control <sup>4</sup>	418 ± 7.0
Positive Control <sup>5</sup>	

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## Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 0.7	21 ± 1.5	22 ± 2.2	32 ± 3.5	22 ± 3.2
1.0					
3.0					
10.0		22 ± 3.8		30 ± 1.2	
33.0		29 ± 3.6		30 ± 1.5	
100.0	66 ± 5.1	47 ± 3.8	46 ± 2.0	44 ± 1.0	426 ± 24.4
333.0	155 ± 8.5	171 ± 17.1	76 ± 5.5	78 ± 5.0	317 ± 34.3
1000.0	198 ± 1.2 <sup>p</sup>	221 ± 31.5 <sup>p</sup>	107 ± 17.4 <sup>p</sup>	91 ± 30.5 <sup>p</sup>	317 ± 85.1 <sup>p</sup>
3333.0	52 ± 13.0 <sup>p</sup>		56 ± 19.5 <sup>p</sup>		89 ± 2.1 <sup>p</sup>
10000.0	45 ± 17.5 <sup>p</sup>		28 ± 12.7 <sup>p</sup>		51 ± 7.2 <sup>p</sup>
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>			324 ± 58.3	1666 ± 27.7	1254 ± 53.9
Positive Control <sup>6</sup>	390 ± 27.7	331 ± 7.4			



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**Strain: TA98**

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<b>Dose (ug/Plate)</b>	<b>With 10% Hamster S9</b>
Vehicle Control <sup>1</sup>	27 ± 1.2
1.0	40 ± 1.8
3.0	53 ± 6.1
10.0	110 ± 7.6
33.0	262 ± 15.1
100.0	379 ± 45.2
333.0	
1000.0	
3333.0	
10000.0	
Trial Summary	Positive
Positive Control <sup>2</sup>	1514 ± 16.2
Positive Control <sup>6</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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

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