

Experiment Number: 546581

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

**G06: Ames Summary Data**

Test Compound: **2-Amino-5,6-dimethylbenzothiazole**

CAS Number: **29927-08-0**

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

Time Report Requested: **17:31:01**

**NTP Study Number:**

546581

**Study Result:**

Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	119 ± 7.4	153 ± 5.7	154 ± 11.8	156 ± 9.0	156 ± 10.8
10.0	115 ± 3.8	177 ± 3.2	196 ± 11.9		180 ± 5.1
33.0	113 ± 7.0	198 ± 9.8	210 ± 4.8	179 ± 3.5	178 ± 5.3
100.0	124 ± 7.0	161 ± 4.3	176 ± 1.8	211 ± 9.2	208 ± 6.4
166.0		151 ± 5.9	201 ± 21.1		249 ± 6.7
333.0	102 ± 1.0	168 ± 9.3	175 ± 5.8	201 ± 5.2	235 ± 1.5
666.0	8 ± 0.9 <sup>s</sup>				
1000.0				122 ± 6.5	
1666.0				116 ± 25.7 <sup>p</sup>	
Trial Summary	Negative	Equivocal	Equivocal	Equivocal	Weakly Positive
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>		918 ± 175.1	570 ± 45.5		
Positive Control <sup>4</sup>	311 ± 18.9				
Positive Control <sup>5</sup>				333 ± 7.1	619 ± 18.7

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## Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	164 ± 5.5	177 ± 2.5	146 ± 13.3	149 ± 12.8	141 ± 5.9
10.0	190 ± 3.8	200 ± 9.8	143 ± 3.0	160 ± 5.7	
33.0	212 ± 3.6	188 ± 5.1	164 ± 0.9	174 ± 5.9	165 ± 18.7
100.0	227 ± 6.2	222 ± 7.5	166 ± 10.4	217 ± 7.3	241 ± 13.5
166.0	215 ± 15.9	218 ± 2.0	177 ± 8.7	179 ± 13.6	
333.0	225 ± 19.5	238 ± 3.3	185 ± 5.5	224 ± 12.9	255 ± 10.4
666.0			145 ± 9.0	135 ± 12.6	
1000.0					148 ± 3.5
1666.0					88 ± 13.7 <sup>P</sup>
Trial Summary	Equivocal	Equivocal	Equivocal	Weakly Positive	Weakly Positive
Positive Control <sup>2</sup>			1238 ± 61.5	636 ± 42.3	
Positive Control <sup>3</sup>					635 ± 20.5
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>	477 ± 24.5	405 ± 8.7			

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**Strain: TA100**

<b>Dose (ug/Plate)</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>	<b>With 30% Hamster S9</b>
Vehicle Control <sup>1</sup>	170 ± 5.5	166 ± 3.1	178 ± 0.6
10.0	175 ± 14.4	173 ± 10.1	
33.0	207 ± 12.5	189 ± 9.3	207 ± 2.6
100.0	235 ± 19.4	206 ± 22.6	242 ± 15.9
166.0	256 ± 6.2	167 ± 6.2	234 ± 27.0
333.0	278 ± 16.6	188 ± 7.8	284 ± 4.7
666.0	317 ± 10.9	253 ± 10.1	312 ± 12.3
1000.0			
1666.0			
Trial Summary	Weakly Positive	Equivocal	Weakly Positive
Positive Control <sup>2</sup>			
Positive Control <sup>3</sup>	545 ± 37.9	564 ± 13.1	515 ± 27.0
Positive Control <sup>4</sup>			
Positive Control <sup>5</sup>			

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## Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 5% Hamster S9
Vehicle Control <sup>1</sup>	15 ± 3.1	33 ± 2.3	22 ± 2.6	28 ± 3.9	30 ± 1.0
10.0	22 ± 2.5				42 ± 1.2
33.0	14 ± 0.9	39 ± 3.5	46 ± 4.4	39 ± 3.0	50 ± 2.7
100.0	22 ± 2.7	71 ± 3.9	85 ± 6.9	65 ± 4.6	55 ± 1.5
166.0			66 ± 1.2	75 ± 1.2	
333.0	16 ± 1.2	112 ± 7.6	79 ± 5.5	101 ± 5.5	82 ± 4.5
666.0	0 ± 0.0 <sup>s</sup>		127 ± 25.7	87 ± 9.3	43 ± 7.4
1000.0		83 ± 6.7		80 ± 9.8	80 ± 9.3
1666.0		70 ± 13.0 <sup>p</sup>			
Trial Summary	Negative	Positive	Positive	Positive	Weakly Positive
Positive Control <sup>2</sup>					715 ± 46.3
Positive Control <sup>3</sup>		94 ± 13.8	107 ± 8.5	113 ± 11.7	
Positive Control <sup>6</sup>	405 ± 12.0				

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## Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	31 ± 3.3	27 ± 1.5	31 ± 0.9	35 ± 2.5
10.0	36 ± 3.2		39 ± 2.4	26 ± 0.9
33.0	58 ± 3.5	47 ± 3.0	53 ± 7.1	26 ± 3.2
100.0	80 ± 6.0	60 ± 4.5	86 ± 11.3	61 ± 6.1
166.0				
333.0	112 ± 11.7	80 ± 5.3	119 ± 13.9	141 ± 8.8
666.0	99 ± 7.5		167 ± 1.3	144 ± 22.3
1000.0	121 ± 14.6	57 ± 1.8	214 ± 0.6	121 ± 6.6
1666.0		92 ± 30.1 <sup>P</sup>		
Trial Summary	Positive	Positive	Positive	Positive
Positive Control <sup>2</sup>	340 ± 10.3			
Positive Control <sup>3</sup>		341 ± 33.2	201 ± 18.9	376 ± 12.3
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: 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 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

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