

Experiment Number: 940321

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: 2-Aminobenzimidazole

CAS Number: 934-32-7

Date Report Requested: 09/17/2018

Time Report Requested: 12:30:38

**NTP Study Number:**

940321

**Study Result:**

Negative

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Test Compound: 2-Aminobenzimidazole  
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## Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	141 ± 4.3	120 ± 10.2	156 ± 3.4	129 ± 9.9	144 ± 2.8
33.0		116 ± 5.5			
100.0	126 ± 6.3	122 ± 6.7	170 ± 8.0	140 ± 3.4	152 ± 10.3
333.0	137 ± 12.0	120 ± 2.8	179 ± 3.7	159 ± 4.1	155 ± 3.3
1000.0	138 ± 12.7	119 ± 5.5	171 ± 18.4	134 ± 6.6	149 ± 4.7
3333.0	105 ± 5.9	96 ± 4.9	146 ± 7.2	154 ± 9.2	150 ± 6.7
6666.0	72 ± 7.0 <sup>s</sup>				
10000.0			68 ± 18.2	78 ± 17.8	83 ± 9.4
Trial Summary	Negative	Negative	Negative	Equivocal	Negative
Positive Control <sup>2</sup>					
Positive Control <sup>3</sup>			654 ± 4.2	684 ± 19.0	582 ± 43.0
Positive Control <sup>4</sup>	440 ± 14.7	451 ± 24.9			
Positive Control <sup>5</sup>					
Positive Control <sup>6</sup>					

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## Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	131 ± 5.2	155 ± 11.3	150 ± 1.5	124 ± 7.5
33.0				
100.0	146 ± 3.8	140 ± 8.9	125 ± 14.5	122 ± 2.5
333.0	173 ± 4.5	162 ± 10.5	149 ± 16.8	137 ± 13.2
1000.0	163 ± 6.4	154 ± 9.8	146 ± 2.5	134 ± 4.6
3333.0	169 ± 2.7	161 ± 11.3	127 ± 2.7	123 ± 15.9
6666.0			97 ± 11.5	
10000.0	85 ± 12.6	80 ± 12.6		58 ± 9.8 <sup>s</sup>
Trial Summary	Equivocal	Negative	Negative	Negative
Positive Control <sup>2</sup>			746 ± 15.9	
Positive Control <sup>3</sup>				479 ± 10.7
Positive Control <sup>4</sup>				
Positive Control <sup>5</sup>	454 ± 73.8			
Positive Control <sup>6</sup>		576 ± 29.2		

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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>	18 ± 0.6	16 ± 1.7	9 ± 1.0	12 ± 1.8	11 ± 2.7
33.0		17 ± 1.0			
100.0	12 ± 0.9	16 ± 1.2	8 ± 0.6	12 ± 0.6	8 ± 0.7
333.0	18 ± 0.3	15 ± 1.2	7 ± 1.0	6 ± 0.7	11 ± 3.1
1000.0	12 ± 0.3	15 ± 2.3	13 ± 3.4	8 ± 1.2	10 ± 2.5
3333.0	12 ± 1.5	14 ± 1.7	9 ± 5.3	9 ± 0.6	6 ± 0.3
6666.0	2 ± 1.2 <sup>s</sup>				7 ± 1.7
10000.0			6 ± 0.3	4 ± 1.5	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>4</sup>	566 ± 30.8	435 ± 14.5			
Positive Control <sup>3</sup>					185 ± 18.9
Positive Control <sup>6</sup>			179 ± 7.7		
Positive Control <sup>7</sup>				182 ± 10.0	

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Strain: TA1535

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	14 ± 2.5
33.0	
100.0	10 ± 2.7
333.0	12 ± 1.7
1000.0	9 ± 1.9
3333.0	9 ± 1.5
6666.0	
10000.0	4 ± 0.0
Trial Summary	Negative
Positive Control <sup>4</sup>	
Positive Control <sup>3</sup>	
Positive Control <sup>6</sup>	372 ± 14.3
Positive Control <sup>7</sup>	

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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>	6 ± 1.5	10 ± 1.2	12 ± 1.5	10 ± 1.8	8 ± 0.6
33.0		7 ± 1.5			
100.0	7 ± 0.3	8 ± 0.3	8 ± 2.3	9 ± 1.5	8 ± 0.3
333.0	8 ± 0.7	9 ± 1.5	10 ± 1.9	13 ± 2.7	12 ± 2.2
1000.0	9 ± 1.5	6 ± 1.9	12 ± 2.1	14 ± 1.2	7 ± 1.2
3333.0	8 ± 0.9	9 ± 1.3	9 ± 0.3	15 ± 1.0	13 ± 2.6
6666.0	4 ± 2.0 <sup>s</sup>				9 ± 2.5
10000.0			10 ± 1.8	12 ± 3.1	
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>				59 ± 1.5	
Positive Control <sup>8</sup>	381 ± 86.9	385 ± 5.5			

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Strain: TA1537

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	13 ± 2.3
33.0	
100.0	12 ± 2.0
333.0	13 ± 2.4
1000.0	13 ± 0.3
3333.0	14 ± 0.7
6666.0	
10000.0	6 ± 0.7
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	45 ± 2.0
Positive Control <sup>6</sup>	
Positive Control <sup>8</sup>	

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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	125 ± 7.3	155 ± 12.7	166 ± 9.6	170 ± 4.7
33.0		126 ± 7.7			
100.0	150 ± 8.5	77 ± 38.3	186 ± 10.7	169 ± 10.2	179 ± 4.8
333.0	156 ± 25.3	115 ± 8.4	174 ± 5.2	191 ± 4.3	160 ± 1.5
1000.0	163 ± 3.8	121 ± 9.0	171 ± 2.1	187 ± 7.7	182 ± 7.0
3333.0	78 ± 9.1	17 ± 5.0	209 ± 3.0	83 ± 18.4	202 ± 5.5
6666.0	0 ± 0.0 <sup>s</sup>			43 ± 7.0	108 ± 26.1
10000.0			16 ± 0.9		
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control <sup>2</sup>					519 ± 23.0
Positive Control <sup>3</sup>			434 ± 24.3		
Positive Control <sup>6</sup>				266 ± 4.9	
Positive Control <sup>8</sup>	614 ± 11.7	652 ± 1.2			



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Strain: TA97

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	168 ± 13.5
33.0	
100.0	182 ± 4.9
333.0	171 ± 4.1
1000.0	167 ± 15.8
3333.0	152 ± 18.2
6666.0	
10000.0	13 ± 2.0 <sup>s</sup>
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	394 ± 25.0
Positive Control <sup>6</sup>	
Positive Control <sup>8</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>	25 ± 2.4	14 ± 2.2	24 ± 5.2	39 ± 2.1	25 ± 5.3
33.0		13 ± 0.7			
100.0	17 ± 1.3	13 ± 2.0	25 ± 3.8	25 ± 1.5	33 ± 2.3
333.0	18 ± 0.6	14 ± 1.2	24 ± 1.9	30 ± 4.4	36 ± 4.8
1000.0	18 ± 3.7	14 ± 1.3	26 ± 3.5	32 ± 3.8	30 ± 2.0
3333.0	17 ± 0.7	17 ± 2.2	38 ± 0.7	39 ± 3.2	33 ± 1.5
6666.0	15 ± 1.0				28 ± 1.7
10000.0			22 ± 4.1	40 ± 2.4	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control <sup>2</sup>					490 ± 13.2
Positive Control <sup>3</sup>			373 ± 15.2	112 ± 5.3	
Positive Control <sup>9</sup>	580 ± 42.2	412 ± 8.5			

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Strain: TA98

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Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control <sup>1</sup>	30 ± 3.5
33.0	
100.0	38 ± 4.1
333.0	33 ± 2.3
1000.0	34 ± 7.8
3333.0	32 ± 5.2
6666.0	
10000.0	38 ± 3.8
Trial Summary	Negative
Positive Control <sup>2</sup>	
Positive Control <sup>3</sup>	284 ± 5.2
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

s: Slight Toxicity

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