

Experiment Number: 923799

Test Type: Genetic Toxicology - Bacterial  
Mutagenicity

**G06: Ames Summary Data**

Test Compound: Azoxybenzene

CAS Number: 495-48-7

Date Report Requested: 09/17/2018

Time Report Requested: 07:02:52

**NTP Study Number:**

923799

**Study Result:**

Positive

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## Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control <sup>1</sup>	133 ± 1.0	170 ± 10.8	131 ± 1.7	183 ± 7.2	176 ± 3.8
1.0	156 ± 7.3				
3.3	159 ± 6.8	199 ± 9.6		191 ± 3.7	195 ± 8.3
5.0			225 ± 12.9		
10.0	152 ± 11.1	428 ± 111.3	271 ± 5.5	249 ± 6.6	252 ± 5.6
33.0	115 ± 7.0 <sup>s</sup>	446 ± 136.6	338 ± 8.7	294 ± 4.9	363 ± 6.0
50.0			282 ± 2.5 <sup>s</sup>		
67.0	95 ± 8.2 <sup>s</sup>				
100.0		422 ± 34.1 <sup>s</sup>	164 ± 9.5 <sup>s</sup>	296 ± 17.4 <sup>s</sup>	368 ± 22.5
200.0					182 ± 11.9 <sup>s</sup>
333.0		44 ± 3.2 <sup>s</sup>		49 ± 10.4 <sup>s</sup>	
Trial Summary	Negative	Positive	Positive	Weakly Positive	Positive
Positive Control <sup>2</sup>	534 ± 14.7				
Positive Control <sup>3</sup>		4401 ± 133.6	3233 ± 68.4		
Positive Control <sup>4</sup>					
Positive Control <sup>5</sup>				3717 ± 76.6	921 ± 28.8

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## Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	165 ± 1.5	182 ± 9.0	166 ± 8.5
1.0			
3.3		179 ± 3.8	165 ± 4.3
5.0	188 ± 3.2		
10.0	218 ± 3.3	242 ± 5.2	214 ± 15.2
33.0	269 ± 8.1	333 ± 17.9	385 ± 11.1
50.0	230 ± 4.6 <sup>s</sup>		
67.0			
100.0	115 ± 1.8 <sup>s</sup>	986 ± 43.2	1170 ± 22.0
200.0			993 ± 99.8 <sup>s</sup>
333.0		37 ± 2.0 <sup>s</sup>	
Trial Summary	Weakly Positive	Positive	Positive
Positive Control <sup>2</sup>			
Positive Control <sup>3</sup>			
Positive Control <sup>4</sup>		1336 ± 4.1	1986 ± 283.5
Positive Control <sup>5</sup>	2902 ± 54.8		

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## Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control <sup>1</sup>	23 ± 1.2	40 ± 4.7	44 ± 0.3	27 ± 0.6	40 ± 1.2
1.0	43 ± 10.2				
3.3	28 ± 3.7	40 ± 2.4			
5.0			53 ± 3.8	31 ± 6.1	
10.0	39 ± 8.9	65 ± 0.9	53 ± 4.7	27 ± 1.3	59 ± 2.8
33.0	30 ± 3.2	117 ± 12.2	56 ± 2.0	27 ± 2.3	66 ± 5.6
50.0			39 ± 3.6 <sup>s</sup>	32 ± 2.6	
67.0	27 ± 9.5 <sup>s</sup>				
100.0		129 ± 6.6 <sup>s</sup>	34 ± 5.0 <sup>s</sup>	26 ± 4.2 <sup>s</sup>	54 ± 5.3 <sup>s</sup>
200.0					
333.0		35 ± 2.3 <sup>s</sup>			32 ± 4.0 <sup>s</sup>
500.0					10 ± 2.4 <sup>s</sup>
Trial Summary	Negative	Positive	Negative	Negative	Negative
Positive Control <sup>6</sup>		354 ± 56.7	1182 ± 35.0	464 ± 14.5	1134 ± 12.5
Positive Control <sup>4</sup>					
Positive Control <sup>7</sup>	403 ± 11.0				

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## Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	36 ± 0.9	35 ± 5.1	39 ± 5.0	21 ± 1.7	34 ± 3.2
1.0					
3.3	38 ± 1.9	32 ± 2.1	42 ± 1.7	27 ± 1.7	36 ± 2.3
5.0					
10.0	44 ± 1.8	37 ± 3.4	47 ± 4.1	28 ± 2.5	38 ± 3.7
33.0	59 ± 0.3	57 ± 2.5	53 ± 9.4	29 ± 2.6	59 ± 6.9
50.0					
67.0					
100.0	52 ± 4.0	74 ± 1.7	42 ± 3.5	30 ± 2.9	162 ± 7.0
200.0		48 ± 4.0 <sup>s</sup>	26 ± 3.3 <sup>s</sup>	26 ± 5.0 <sup>s</sup>	
333.0	19 ± 1.5 <sup>s</sup>				204 ± 52.4 <sup>s</sup>
500.0					
Trial Summary	Negative	Equivocal	Negative	Negative	Positive
Positive Control <sup>6</sup>					
Positive Control <sup>4</sup>	1209 ± 16.5	2238 ± 58.9	1351 ± 17.1	502 ± 39.0	1065 ± 18.8
Positive Control <sup>7</sup>					

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control <sup>1</sup>	35 ± 1.9	35 ± 5.3
1.0		
3.3		
5.0		
10.0	77 ± 6.7	39 ± 3.5
33.0	290 ± 15.8	47 ± 5.6
50.0		
67.0		
100.0	43 ± 6.5	138 ± 3.9
200.0		
333.0	94 ± 6.0 <sup>s</sup>	210 ± 47.6 <sup>s</sup>
500.0	18 ± 7.8 <sup>s</sup>	11 ± 7.2 <sup>s</sup>
Trial Summary	Positive	Positive
Positive Control <sup>6</sup>		
Positive Control <sup>4</sup>	1154 ± 47.4	395 ± 7.5
Positive Control <sup>7</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 Sodium Azide

3: 0.75 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate 2-Aminoanthracene

5: 2.0 ug/Plate 2-Aminoanthracene

6: 0.4 ug/Plate 2-Aminoanthracene

7: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

\*\* END OF REPORT \*\*