

Experiment Number: 218794

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Azobenzene

CAS Number: 103-33-3

Date Report Requested: 09/14/2018

Time Report Requested: 21:12:41

NTP Study Number:

218794

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	Without S9	Without S9	With 10% Rat S9
Vehicle Control ¹	81 ± 8.1	101 ± 5.5	122 ± 1.9	137 ± 6.0	92 ± 4.1
0.3	122 ± 15.9	98 ± 4.3	140 ± 5.0	136 ± 5.9	91 ± 4.8
1.0	113 ± 7.1	87 ± 1.8	136 ± 5.0	131 ± 4.2	104 ± 11.0
3.3	116 ± 7.3	84 ± 1.5	118 ± 9.3	132 ± 2.0	120 ± 18.6
10.0	88 ± 2.6	87 ± 5.2	134 ± 9.2	121 ± 9.0	138 ± 11.4
15.0			Toxic	115 ± 8.7 ^s	
20.0	Toxic	54 ± 1.5 ^s	Toxic	Toxic	188 ± 5.2
25.0			Toxic	Toxic	
30.0				Toxic	
40.0				Toxic	
Trial Summary	Equivocal	Negative	Negative	Negative	Weakly Positive
Positive Control ²					
Positive Control ³					1004 ± 42.5
Positive Control ⁴	1565 ± 27.0	1208 ± 51.0	1936 ± 36.4	2793 ± 61.0	

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Strain: TA100

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	99 ± 10.3	110 ± 3.5	124 ± 3.7	112 ± 14.0	93 ± 4.5
0.3	94 ± 4.0	106 ± 10.9	137 ± 4.2	123 ± 4.1	85 ± 7.2
1.0	90 ± 3.5	128 ± 7.5	137 ± 4.0	116 ± 4.5	90 ± 2.2
3.3	110 ± 10.7	129 ± 9.2	125 ± 4.6	125 ± 17.8	102 ± 1.7
10.0	95 ± 0.9	167 ± 8.4	169 ± 12.0	145 ± 7.0	119 ± 18.8
15.0		214 ± 15.0	187 ± 10.7		
20.0	154 ± 13.1	198 ± 5.7	224 ± 4.4	157 ± 9.2	122 ± 16.0
25.0		220 ± 13.1	257 ± 10.4		
30.0			161 ± 68.4		
40.0			260 ± 21.4		
Trial Summary	Equivocal	Weakly Positive	Weakly Positive	Equivocal	Equivocal
Positive Control ²				1467 ± 90.3	1168 ± 38.4
Positive Control ³	788 ± 29.5	2037 ± 61.6	885 ± 13.6		
Positive Control ⁴					

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	108 ± 4.6	123 ± 6.0
0.3	110 ± 9.9	120 ± 7.0
1.0	110 ± 12.5	125 ± 3.2
3.3	113 ± 10.7	126 ± 8.5
10.0	151 ± 5.2	152 ± 9.5
15.0	134 ± 11.0	186 ± 2.5
20.0	148 ± 9.0	163 ± 9.6
25.0	148 ± 6.4	174 ± 18.0
30.0		125 ± 53.1
40.0		176 ± 13.3
Trial Summary	Equivocal	Weakly Positive
Positive Control ²	2934 ± 66.5	1371 ± 16.9
Positive Control ³		
Positive Control ⁴		

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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 ¹	18 ± 4.9	14 ± 2.2	8 ± 0.7	10 ± 1.2	10 ± 2.0
0.3	14 ± 1.5	12 ± 2.3	6 ± 0.9	10 ± 2.1	9 ± 1.2
1.0	14 ± 2.1	16 ± 2.3	8 ± 2.0	11 ± 1.2	10 ± 2.8
3.3	16 ± 0.7	15 ± 4.9	8 ± 1.2	10 ± 3.2	9 ± 2.3
10.0	13 ± 1.5	12 ± 2.0	9 ± 2.7	12 ± 3.3	11 ± 1.7
20.0	10 ± 3.0 ^s	Toxic	8 ± 1.5	9 ± 1.2	6 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					135 ± 10.2
Positive Control ³			82 ± 4.7	134 ± 13.0	
Positive Control ⁴	1110 ± 28.2	1270 ± 13.7			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	9 ± 2.2
0.3	9 ± 0.6
1.0	7 ± 0.9
3.3	9 ± 1.5
10.0	10 ± 3.5
20.0	11 ± 1.3
Trial Summary	Negative
Positive Control ²	190 ± 12.9
Positive Control ³	
Positive Control ⁴	

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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 ¹	7 ± 1.2	9 ± 2.0	9 ± 2.3	9 ± 1.2	7 ± 0.6
0.3	6 ± 1.8	11 ± 0.9	9 ± 4.0	9 ± 0.7	6 ± 2.3
1.0	7 ± 0.6	9 ± 1.7	7 ± 1.5	13 ± 3.6	12 ± 2.3
3.3	9 ± 1.5	5 ± 1.2	9 ± 0.9	11 ± 3.3	8 ± 1.5
10.0	7 ± 2.0	11 ± 1.5	7 ± 0.9	10 ± 0.9	7 ± 2.1
20.0	Toxic	7 ± 0.6 ^s	11 ± 1.9	8 ± 0.9	10 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					152 ± 9.0
Positive Control ³			47 ± 2.6	53 ± 7.9	
Positive Control ⁵	456 ± 98.8	401 ± 106.7			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.5
0.3	8 ± 2.7
1.0	12 ± 1.3
3.3	11 ± 0.0
10.0	12 ± 1.2
20.0	12 ± 1.7
Trial Summary	Negative
Positive Control ²	124 ± 19.1
Positive Control ³	
Positive Control ⁵	

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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 ¹	23 ± 2.0	14 ± 1.5	30 ± 2.2	24 ± 2.8	26 ± 0.6
0.3	21 ± 2.1	20 ± 2.6	22 ± 1.5	25 ± 5.5	29 ± 2.3
1.0	18 ± 3.3	20 ± 4.3	25 ± 0.9	25 ± 3.5	26 ± 2.0
3.3	17 ± 0.9	24 ± 2.4	25 ± 3.1	23 ± 2.5	25 ± 1.5
10.0	20 ± 1.7	24 ± 1.7	24 ± 0.9	27 ± 2.7	31 ± 1.5
20.0	Toxic	Toxic	33 ± 6.7	31 ± 2.6	31 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1939 ± 180.6
Positive Control ³			1190 ± 51.1	1906 ± 116.5	
Positive Control ⁶	1466 ± 27.4	1530 ± 54.8			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	23 ± 3.2
0.3	31 ± 2.0
1.0	26 ± 2.3
3.3	28 ± 3.2
10.0	34 ± 3.0
20.0	28 ± 2.3
Trial Summary	Negative
Positive Control ²	3293 ± 86.1
Positive Control ³	
Positive Control ⁶	

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LEGEND

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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **