

Experiment Number: 154495

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

G06: Ames Summary Data

Test Compound: **4-Nitro-1,3-benzenediamine**

CAS Number: 5131-58-8

Date Report Requested: **09/12/2018**

Time Report Requested: **20:36:09**

NTP Study Number:

154495

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	141 ± 3.2	137 ± 2.5	139 ± 7.9
100.0	143 ± 7.6	156 ± 2.6	158 ± 6.9
333.0	148 ± 2.7	158 ± 6.4	166 ± 3.7
1000.0	129 ± 5.3	154 ± 6.6	173 ± 0.7
3333.0	91 ± 10.0	107 ± 2.0	128 ± 12.1
10000.0	10 ± 4.9 ^s	41 ± 16.7 ^s	26 ± 5.0 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ²			873 ± 3.8
Positive Control ³		642 ± 47.7	
Positive Control ⁴	432 ± 14.9		

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	19 ± 3.8	16 ± 0.7	11 ± 0.6
100.0	17 ± 5.0	10 ± 2.9	11 ± 3.1
333.0	26 ± 4.6	11 ± 2.4	15 ± 0.3
1000.0	18 ± 2.4	13 ± 2.1	14 ± 0.7
3333.0	13 ± 0.6	15 ± 6.0	10 ± 2.6
10000.0	4 ± 1.3	7 ± 1.7	6 ± 1.7
Trial Summary	Negative	Negative	Negative
Positive Control ³			226 ± 2.3
Positive Control ⁴	363 ± 20.5		
Positive Control ⁵		124 ± 7.7	

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	10 ± 2.6	10 ± 2.3	9 ± 1.2
33.0			8 ± 0.9
100.0	7 ± 2.6	12 ± 2.9	11 ± 2.4
333.0	10 ± 1.2	16 ± 0.6	15 ± 1.3
666.0	8 ± 0.0	16 ± 0.9	
1000.0	11 ± 2.8	12 ± 2.3	34 ± 4.1
1666.0	11 ± 3.7	13 ± 0.6	
3333.0			46 ± 4.6
Trial Summary	Negative	Negative	Positive
Positive Control ⁵		210 ± 7.7	463 ± 20.9
Positive Control ⁶	405 ± 48.2		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 5% Rat S9	With 10% Rat S9
Vehicle Control ¹	108 ± 5.2	139 ± 15.4	139 ± 8.7	134 ± 12.9	174 ± 12.8
33.0					
100.0	Toxic	135 ± 10.7	177 ± 7.9	172 ± 8.6	169 ± 21.0
333.0	130 ± 4.9	139 ± 7.4	168 ± 15.9	166 ± 9.8	255 ± 22.9
666.0		144 ± 5.0	181 ± 14.6	151 ± 10.8	
1000.0	148 ± 7.7	149 ± 10.8	160 ± 17.0	154 ± 6.4	232 ± 5.9
1666.0		148 ± 7.8	183 ± 4.5	145 ± 21.3	
3333.0	100 ± 6.1				185 ± 18.7
10000.0	Toxic				57 ± 25.8 ^s
Trial Summary	Equivocal	Negative	Negative	Negative	Equivocal
Positive Control ²					
Positive Control ³			971 ± 17.6	445 ± 11.3	449 ± 6.4
Positive Control ⁵					
Positive Control ⁶	526 ± 24.1	935 ± 14.2			

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Strain: TA97

Dose (ug/Plate)	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	184 ± 2.3	156 ± 14.1	179 ± 8.7	199 ± 1.0	156 ± 28.6
33.0					
100.0	194 ± 8.8	198 ± 13.4	201 ± 9.8	186 ± 2.3	187 ± 11.5
333.0	224 ± 13.3	204 ± 12.2	198 ± 8.0	198 ± 9.3	185 ± 8.0
666.0	221 ± 9.0	207 ± 10.6	212 ± 13.3	225 ± 9.2	192 ± 13.4
1000.0	239 ± 5.4	200 ± 8.2	198 ± 2.7	217 ± 17.3	187 ± 13.0
1666.0	231 ± 4.6	222 ± 6.4	190 ± 20.0	223 ± 18.8	187 ± 8.1
3333.0					
10000.0					
Trial Summary	Equivocal	Equivocal	Negative	Negative	Negative
Positive Control ²					
Positive Control ³	483 ± 21.5	488 ± 21.3	299 ± 11.9		
Positive Control ⁵				441 ± 25.2	291 ± 7.5
Positive Control ⁶					

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	144 ± 12.4	157 ± 1.8
33.0		163 ± 9.0
100.0	194 ± 16.2	220 ± 9.4
333.0	212 ± 4.2	256 ± 15.7
666.0		
1000.0	288 ± 7.5	301 ± 11.1
1666.0		
3333.0	282 ± 11.3	296 ± 28.0
10000.0	67 ± 16.8 ^s	
Trial Summary	Positive	Positive
Positive Control ²	507 ± 8.8	556 ± 27.1
Positive Control ³		
Positive Control ⁵		
Positive Control ⁶		

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	19 ± 3.5	25 ± 1.2	27 ± 4.1	39 ± 4.8	26 ± 2.0
10.0					
33.0					
100.0	27 ± 5.9	28 ± 1.8	34 ± 3.0		
333.0	33 ± 4.2	28 ± 1.5	43 ± 4.8	59 ± 3.8	52 ± 4.0
1000.0	47 ± 2.3	43 ± 5.6	44 ± 1.5	69 ± 3.3	61 ± 10.9
1666.0		44 ± 2.8		83 ± 3.7	73 ± 5.2
3333.0	69 ± 3.8	54 ± 1.5	45 ± 3.6	98 ± 6.4	74 ± 3.5
6666.0				110 ± 5.0	75 ± 12.6 ^s
10000.0	18 ± 4.1		23 ± 5.2		
Trial Summary	Positive	Positive	Equivocal	Positive	Positive
Positive Control ²					
Positive Control ³			277 ± 4.2	451 ± 17.9	459 ± 15.0
Positive Control ⁷	669 ± 19.1	749 ± 19.9			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	32 ± 2.7	32 ± 3.2
10.0		38 ± 3.8
33.0		49 ± 6.4
100.0	117 ± 10.1	81 ± 6.3
333.0	165 ± 12.7	125 ± 7.7
1000.0	185 ± 9.3	185 ± 4.9
1666.0		
3333.0	167 ± 8.4	
6666.0		
10000.0	68 ± 15.6	
Trial Summary	Positive	Positive
Positive Control ²	437 ± 28.2	444 ± 12.1
Positive Control ³		
Positive Control ⁷		

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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: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****