

Experiment Number: 236524

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: N,N-Diethyl-p-phenylenediamine

CAS Number: 93-05-0

Date Report Requested: 09/15/2018

Time Report Requested: 04:27:35

NTP Study Number:

236524

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	92 ± 2.0	90 ± 5.5	117 ± 9.2	95 ± 6.0	119 ± 3.1
10.0	113 ± 11.3			102 ± 6.9	
33.0	104 ± 0.6	101 ± 12.8	151 ± 11.8	100 ± 3.8	107 ± 8.7
66.0				107 ± 7.5	
100.0	106 ± 7.9	112 ± 6.4	364 ± 21.8	120 ± 5.0	138 ± 5.0
166.0		108 ± 14.6			142 ± 4.2
333.0	143 ± 7.1	133 ± 13.2	355 ± 41.6	139 ± 17.3	152 ± 1.8
666.0		94 ± 93.5 ^s			161 ± 11.3
1000.0	Toxic		194 ± 9.2		
3333.0			131 ± 11.8		
Trial Summary	Equivocal	Equivocal	Positive	Equivocal	Equivocal
Positive Control ²					
Positive Control ³			426 ± 13.9	477 ± 13.3	781 ± 13.3
Positive Control ⁴	563 ± 7.9	329 ± 4.1			

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	105 ± 4.4	113 ± 8.0	88 ± 1.3
10.0			121 ± 13.7
33.0	124 ± 15.4	151 ± 5.3	140 ± 7.5
66.0			194 ± 3.8
100.0	127 ± 0.5	266 ± 10.1	238 ± 10.0
166.0			299 ± 6.0
333.0	125 ± 3.9	246 ± 4.8	
666.0	147 ± 11.1		
1000.0	154 ± 11.9	228 ± 4.0	
3333.0		165 ± 13.6	
Trial Summary	Equivocal	Positive	Positive
Positive Control ²		548 ± 14.0	738 ± 34.7
Positive Control ³	272 ± 2.1		
Positive Control ⁴			

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Strain: TA1535			
Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	24 ± 2.5	17 ± 0.9	13 ± 2.1
10.0	28 ± 0.9		
33.0	25 ± 2.6	15 ± 1.8	9 ± 0.3
100.0	24 ± 2.0	13 ± 2.6	15 ± 1.5
333.0	22 ± 1.5	13 ± 2.3	15 ± 1.0
1000.0	6 ± 0.9 ^s	12 ± 2.9	13 ± 1.9
3333.0		10 ± 1.5	10 ± 1.9
Trial Summary	Negative	Negative	Negative
Positive Control ³			270 ± 21.7
Positive Control ⁴	378 ± 11.1		
Positive Control ⁵		165 ± 8.4	

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Strain: TA97

Dose (ug/Plate)	Without S9		Without S9		With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	146 ±	3.5	138 ±	5.8	178 ± 20.9	176 ± 7.3	174 ± 6.9
6.0						174 ± 4.4	
10.0	162 ±	22.0				182 ± 9.7	
16.0						197 ± 6.3	
33.0	169 ±	1.5	155 ± 11.1		520 ± 37.1	233 ± 6.2	306 ± 20.9
66.0						344 ± 14.8	
100.0	158 ±	5.6	168 ± 11.5		1513 ± 27.1		796 ± 18.6
166.0			202 ± 8.7				
333.0	246 ±	4.4	237 ± 10.0		1435 ± 43.8		600 ± 118.2
666.0			257 ± 9.7				
1000.0	0 ±	0.0 ^s			401 ± 13.3		349 ± 15.5
3333.0					317 ± 95.4		378 ± 25.5
Trial Summary	Equivocal		Weakly Positive		Positive	Positive	Positive
Positive Control ²							395 ± 17.5
Positive Control ³					336 ± 3.2	372 ± 19.8	
Positive Control ⁶	768 ±	102.2	927 ± 42.4				

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Strain: TA97

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	149 ± 5.9
6.0	178 ± 10.9
10.0	181 ± 14.3
16.0	
33.0	302 ± 13.2
66.0	465 ± 14.6
100.0	698 ± 10.4
166.0	
333.0	
666.0	
1000.0	
3333.0	
Trial Summary	Positive
Positive Control ²	469 ± 13.3
Positive Control ³	
Positive Control ⁶	

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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% Hamster S9
Vehicle Control ¹	26 ± 4.6	36 ± 4.4	22 ± 2.3	28 ± 0.3	39 ± 4.8
0.3			25 ± 3.8		
1.0			26 ± 0.3		
3.0			29 ± 4.6	30 ± 1.8	
10.0	20 ± 2.0		54 ± 12.5	34 ± 6.8	
16.0				59 ± 2.0	
33.0	18 ± 0.6	846 ± 61.7	206 ± 16.0	139 ± 5.9	305 ± 40.4
66.0				229 ± 25.7	
100.0	23 ± 2.7	2567 ± 101.2			1858 ± 59.6
333.0	28 ± 5.3	2181 ± 66.6			1237 ± 130.9
1000.0	Toxic	241 ± 20.9			88 ± 5.9
3333.0		113 ± 48.2			37 ± 3.5
Trial Summary	Negative	Positive	Positive	Positive	Positive
Positive Control ²					363 ± 10.8
Positive Control ³		255 ± 23.2	291 ± 18.7	630 ± 28.6	
Positive Control ⁷	508 ± 7.0				

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	39 ± 4.5	33 ± 2.5
0.3	28 ± 6.4	
1.0	27 ± 3.8	
3.0	40 ± 7.0	30 ± 6.7
10.0	44 ± 6.0	40 ± 5.8
16.0		56 ± 3.7
33.0	305 ± 13.9	107 ± 9.4
66.0		146 ± 4.6
100.0		
333.0		
1000.0		
3333.0		
Trial Summary	Equivocal	Positive
Positive Control ²	542 ± 20.2	1368 ± 89.1
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 ****