

Experiment Number: 184237

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

G06: Ames Summary Data

Test Compound: **Dibenzooxathiane**

CAS Number: **262-20-4**

Date Report Requested: **09/13/2018**

Time Report Requested: **19:21:40**

NTP Study Number:

184237

Study Result:

Negative

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Test Compound: Dibenzooxathiane

CAS Number: 262-20-4

Date Report Requested: 09/13/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	108 ± 4.4	131 ± 7.1	103 ± 3.2	173 ± 3.8	93 ± 2.8
0.1	114 ± 2.3	127 ± 1.7			
0.3	121 ± 9.9	122 ± 5.2			
1.0	110 ± 15.1	120 ± 1.8	112 ± 10.8	152 ± 8.5	
3.0	112 ± 1.9	111 ± 2.7	109 ± 6.4	148 ± 13.4	126 ± 13.9
6.0		93 ± 8.0 ^s			
10.0	40 ± 4.9 ^s		129 ± 2.6	160 ± 12.2	108 ± 19.0
33.0			102 ± 3.2	146 ± 1.5	121 ± 5.5
100.0			85 ± 3.2	136 ± 6.1 ^s	128 ± 4.0
333.0					85 ± 6.8
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²			596 ± 16.3	380 ± 18.7	2422 ± 50.8
Positive Control ³	669 ± 12.7	365 ± 14.2			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	145 ± 4.9
0.1	
0.3	
1.0	
3.0	132 ± 5.7
6.0	
10.0	146 ± 10.7
33.0	138 ± 4.9
100.0	140 ± 12.5
333.0	125 ± 8.3 ^s
Trial Summary	Negative
Positive Control ²	549 ± 4.8
Positive Control ³	

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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 ¹	20 ± 3.8	17 ± 1.2	13 ± 2.3	20 ± 0.3	10 ± 1.5
0.1	18 ± 4.4	17 ± 2.6			
0.3	20 ± 4.6	15 ± 3.1			
1.0	17 ± 0.3	13 ± 1.5	9 ± 2.1	12 ± 1.7	
3.0	17 ± 4.2	17 ± 1.3	9 ± 2.2	13 ± 3.2	11 ± 1.7
6.0		13 ± 2.6 ^s			
10.0	4 ± 1.5 ^s		8 ± 0.9	15 ± 0.9	5 ± 1.5
33.0			11 ± 1.2	14 ± 1.2	7 ± 2.7
100.0			7 ± 2.1	12 ± 1.2 ^s	11 ± 1.5
333.0					13 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	321 ± 8.2	274 ± 5.5			
Positive Control ⁴			184 ± 10.4	155 ± 3.5	616 ± 14.0

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Test Compound: **Dibenzooxathiane**

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	12 ± 2.2
0.1	
0.3	
1.0	
3.0	11 ± 1.5
6.0	
10.0	10 ± 1.5
33.0	9 ± 1.3
100.0	11 ± 0.6
333.0	11 ± 2.0 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	132 ± 4.5

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Test Compound: Dibenzooxathiane

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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 ¹	119 ± 2.5	125 ± 8.7	112 ± 14.4	181 ± 3.9	166 ± 4.4
0.1	138 ± 9.6	135 ± 16.9			
0.3	129 ± 16.5	136 ± 13.3			
1.0	140 ± 15.1	137 ± 12.5	132 ± 21.1	182 ± 8.4	
3.0	150 ± 20.7	120 ± 5.9	125 ± 9.0	181 ± 10.4	187 ± 8.5
6.0		106 ± 7.1 ^s			
10.0	81 ± 3.2 ^s		127 ± 12.9	173 ± 4.0	191 ± 10.5
33.0			136 ± 24.8	157 ± 6.7	211 ± 13.0
100.0			138 ± 17.2 ^s	136 ± 3.6 ^s	199 ± 17.4
333.0					114 ± 57.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			979 ± 34.4	558 ± 19.4	1421 ± 19.3
Positive Control ⁵	1272 ± 56.1	2102 ± 134.1			

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Test Compound: Dibenzooxathiane
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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	145 ± 8.3
0.1	
0.3	
1.0	
3.0	136 ± 17.0
6.0	
10.0	163 ± 2.8
33.0	165 ± 13.1
100.0	171 ± 11.1
333.0	146 ± 20.0 ^s
Trial Summary	Negative
Positive Control ⁴	1302 ± 28.0
Positive Control ⁵	

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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 ¹	19 ± 2.2	21 ± 2.0	36 ± 2.0	34 ± 5.2	46 ± 3.5
0.1	14 ± 2.0	21 ± 1.2			
0.3	17 ± 3.6	18 ± 1.5			
1.0	16 ± 1.5	26 ± 2.8	38 ± 4.3	28 ± 5.2	
3.0	16 ± 1.8	15 ± 1.5	42 ± 3.6	30 ± 6.4	41 ± 5.7
6.0		9 ± 0.6 ^s			
10.0	13 ± 6.5 ^s		43 ± 2.8	38 ± 5.8	40 ± 5.0
33.0			34 ± 1.8	32 ± 1.5	49 ± 4.5
100.0			28 ± 5.0	36 ± 1.8 ^s	49 ± 3.5
333.0					40 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			282 ± 9.1	142 ± 10.5	1089 ± 38.4
Positive Control ⁶	1545 ± 58.8	1824 ± 19.1			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	38 ± 2.2
0.1	
0.3	
1.0	
3.0	36 ± 3.1
6.0	
10.0	33 ± 3.5
33.0	39 ± 0.3
100.0	40 ± 2.6
333.0	33 ± 4.8 ^s
Trial Summary	Negative
Positive Control ²	338 ± 7.9
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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****