

Experiment Number: 276626

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

G06: Ames Summary Data

Test Compound: **DDD (6-hydroxy-2-naphthyl disulfide)**

CAS Number: 6088-51-3

Date Report Requested: 09/11/2018

Time Report Requested: 14:20:46

NTP Study Number:

276626

Study Result:

Negative

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G06: Ames Summary Data

Test Compound: DDD (6-hydroxy-2-naphthyl disulfide)

CAS Number: 6088-51-3

Date Report Requested: 09/11/2018

Time Report Requested: 14:20:46

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	123 ± 3.5	104 ± 9.8	117 ± 10.6	142 ± 3.2	111 ± 19.3
33.0					
100.0	116 ± 5.6	116 ± 3.8	111 ± 13.6	164 ± 8.7	136 ± 5.5
333.0	131 ± 10.7	109 ± 9.3	112 ± 11.0	145 ± 9.8	144 ± 9.8
666.0			129 ± 3.5	146 ± 2.7	
1000.0	137 ± 10.7	121 ± 5.2	124 ± 0.9	140 ± 4.2	145 ± 12.9
1666.0			111 ± 7.5	143 ± 3.2	
3333.0	147 ± 11.1 ^P	95 ± 9.4 ^P			142 ± 7.4 ^P
10000.0	132 ± 10.1 ^P	91 ± 5.1 ^P			137 ± 11.3 ^P
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					
Positive Control ³			1011 ± 25.0	601 ± 64.2	441 ± 9.8
Positive Control ⁴	319 ± 10.5	390 ± 20.3			
Positive Control ⁵					

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Strain: TA100

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	142 ± 8.4	110 ± 4.3	104 ± 12.7	111 ± 4.2	157 ± 3.3
33.0		106 ± 5.9			
100.0	156 ± 7.1	113 ± 11.7	136 ± 7.7	115 ± 4.3	153 ± 8.4
333.0	176 ± 3.1	138 ± 2.3	154 ± 4.6	120 ± 4.3	172 ± 7.2
666.0			137 ± 8.7		
1000.0	138 ± 72.7	141 ± 7.5	138 ± 7.1	115 ± 10.1	167 ± 7.2
1666.0			142 ± 7.4		
3333.0	239 ± 7.2 ^p	118 ± 7.8 ^p		132 ± 1.8 ^p	132 ± 4.2 ^p
10000.0	194 ± 18.2 ^p			115 ± 3.2 ^p	132 ± 3.3 ^p
Trial Summary	Equivocal	Negative	Equivocal	Negative	Negative
Positive Control ²				764 ± 17.2	
Positive Control ³		521 ± 41.2			399 ± 4.9
Positive Control ⁴					
Positive Control ⁵	447 ± 17.5		722 ± 26.2		

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Strain: TA1535

Dose (ug/Plate)	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	12 ± 2.3	9 ± 0.7	13 ± 2.6
100.0	9 ± 0.7	11 ± 2.7	13 ± 0.6
333.0	7 ± 1.7	12 ± 1.5	13 ± 0.6
666.0	7 ± 2.3	9 ± 1.3	13 ± 2.6
1000.0	9 ± 1.2	6 ± 0.3	14 ± 1.0
1666.0	4 ± 1.0	8 ± 0.9	7 ± 1.2
Trial Summary	Negative	Negative	Negative
Positive Control ⁵	186 ± 35.6	95 ± 8.4	
Positive Control ⁶			100 ± 9.1

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Test Compound: DDD (6-hydroxy-2-naphthyl disulfide)

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Strain: TA1538

Dose (ug/Plate)	With 5% Rat S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	37 ± 4.6	25 ± 2.4	28 ± 3.8
100.0	36 ± 3.4	36 ± 1.7	39 ± 3.0
333.0	22 ± 3.8	31 ± 3.2	36 ± 3.6
666.0	27 ± 4.7	25 ± 4.4	29 ± 5.6
1000.0	22 ± 3.2	28 ± 0.7	17 ± 2.2
1666.0	17 ± 1.9	16 ± 1.2	27 ± 7.5
Trial Summary	Negative	Negative	Negative
Positive Control ³	703 ± 30.3	499 ± 71.4	212 ± 5.2

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Test Compound: DDD (6-hydroxy-2-naphthyl disulfide)

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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	164 ± 11.6	144 ± 6.6	173 ± 9.2	211 ± 7.2	146 ± 1.5
100.0	143 ± 6.9	157 ± 7.0	183 ± 7.2	212 ± 18.4	152 ± 9.2
333.0	156 ± 8.8	139 ± 8.6	194 ± 4.5	251 ± 4.2	163 ± 6.4
1000.0	194 ± 9.6	164 ± 7.2	193 ± 2.8	245 ± 51.8	154 ± 6.4
3333.0	137 ± 7.8 ^P	149 ± 2.3 ^P	206 ± 5.2 ^P	223 ± 4.6 ^P	167 ± 7.0 ^P
10000.0	148 ± 4.6 ^P	134 ± 3.2 ^P	195 ± 4.7 ^P	197 ± 22.1 ^P	165 ± 10.5 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					541 ± 23.7
Positive Control ³			324 ± 10.1		
Positive Control ⁵				343 ± 13.5	
Positive Control ⁷	497 ± 34.3	374 ± 4.7			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	186 ± 13.3
100.0	180 ± 10.6
333.0	174 ± 13.6
1000.0	199 ± 11.5
3333.0	170 ± 11.6 ^p
10000.0	126 ± 7.8 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	554 ± 16.8
Positive Control ⁵	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 5% Rat S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	21 ± 2.6	17 ± 1.0	37 ± 2.6	26 ± 3.3	30 ± 4.2
33.0					
100.0	22 ± 3.3	17 ± 2.3	30 ± 1.2	29 ± 4.6	44 ± 3.8
333.0	25 ± 2.9	13 ± 0.9	28 ± 4.3	45 ± 4.0	45 ± 0.0
666.0			39 ± 1.7	30 ± 1.9	
1000.0	20 ± 2.5	19 ± 1.0	23 ± 4.4	31 ± 3.6	45 ± 3.8
1666.0			19 ± 2.6	32 ± 7.0	
3333.0	15 ± 2.5 ^P	19 ± 1.5 ^P			37 ± 2.9 ^P
10000.0	13 ± 1.3 ^P	14 ± 4.1 ^P			41 ± 3.9 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					
Positive Control ³			742 ± 14.8	451 ± 12.5	286 ± 10.7
Positive Control ⁸	380 ± 5.6	521 ± 13.1			

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Strain: TA98

Dose (ug/Plate)	With 30% Rat S9	With 30% Rat S9	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	28 ± 1.2	31 ± 3.2	36 ± 2.3	24 ± 2.1	35 ± 5.8
33.0		29 ± 1.5			
100.0	52 ± 5.8	42 ± 2.8	46 ± 7.2	21 ± 2.7	31 ± 5.7
333.0	74 ± 11.5	34 ± 3.8	42 ± 4.9	26 ± 1.7	40 ± 0.6
666.0			43 ± 3.3		
1000.0	84 ± 8.3	46 ± 10.7	43 ± 3.3	24 ± 3.2	46 ± 3.2
1666.0			33 ± 5.2		
3333.0	60 ± 3.8 ^p	35 ± 5.8 ^p		27 ± 3.8 ^p	33 ± 2.4 ^p
10000.0	46 ± 5.0 ^p			23 ± 2.3 ^p	30 ± 0.7 ^p
Trial Summary	Positive	Negative	Negative	Negative	Negative
Positive Control ²				614 ± 29.2	
Positive Control ³	83 ± 7.3	105 ± 6.5	208 ± 15.8		147 ± 9.3
Positive Control ⁸					

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Strain: TA102

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	184 ± 2.5	134 ± 9.4	212 ± 19.7	260 ± 18.0	202 ± 12.8
100.0	172 ± 5.0	130 ± 8.5	226 ± 18.6	288 ± 21.1	195 ± 9.1
333.0	154 ± 15.0	136 ± 9.5	206 ± 8.3	255 ± 5.5	194 ± 7.4
1000.0	144 ± 10.2	146 ± 8.7	209 ± 11.8	212 ± 4.7	167 ± 13.5
3333.0	73 ± 3.2 ^P	139 ± 10.7 ^P	187 ± 1.5 ^P	132 ± 20.8 ^P	156 ± 3.3 ^P
10000.0	47 ± 10.2 ^X	113 ± 15.3 ^P	166 ± 8.7 ^P	173 ± 10.5 ^P	188 ± 1.5 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹	813 ± 13.5	737 ± 7.8			
Positive Control ¹⁰			1077 ± 26.6	1236 ± 18.7	534 ± 59.0

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CAS Number: 6088-51-3

Date Report Requested: 09/11/2018

Time Report Requested: 14:20:46

Strain: TA102

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	278 ± 18.7
100.0	281 ± 15.8
333.0	262 ± 15.6
1000.0	223 ± 4.9
3333.0	138 ± 6.1 ^P
10000.0	137 ± 2.1 ^P
Trial Summary	Negative
Positive Control ⁹	
Positive Control ¹⁰	926 ± 74.0

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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: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

9: 0.5 ug/Plate Mitomycin-C

10: 10.0 ug/Plate Sterigmatocystin

p: Precipitate

x: Slight Toxicity and Precipitate

**** END OF REPORT ****