

Experiment Number: 381877

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Hydroxy-4-methoxybenzophenone

CAS Number: 131-57-7

Date Report Requested: 09/14/2018

Time Report Requested: 09:18:02

NTP Study Number:

381877

Study Result:

Weakly Positive

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Test Compound: 2-Hydroxy-4-methoxybenzophenone
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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	136 ± 6.9	108 ± 6.9	129 ± 3.2	143 ± 2.6	130 ± 0.9
1.0	102 ± 3.4	122 ± 10.1			
3.0	111 ± 9.4	109 ± 4.2			
10.0	110 ± 4.3	109 ± 11.9	153 ± 11.0	152 ± 7.3	112 ± 1.9
33.0	103 ± 8.9	106 ± 11.4	155 ± 3.5	150 ± 10.5	151 ± 4.9
66.0					
100.0	83 ± 2.7	83 ± 3.1	145 ± 3.4	159 ± 4.8	146 ± 4.7
333.0			120 ± 12.4	151 ± 11.9	103 ± 8.3
666.0				82 ± 9.0	
1000.0			58 ± 10.0		45 ± 2.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					933 ± 40.9
Positive Control ³			627 ± 37.3	350 ± 15.3	
Positive Control ⁴	507 ± 1.3	517 ± 0.7			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	138 ± 2.7	142 ± 2.8
1.0		
3.0		
10.0	138 ± 19.5	133 ± 5.5
33.0	141 ± 16.6	154 ± 5.5
66.0		197 ± 12.2
100.0	247 ± 16.1	213 ± 20.8
333.0	246 ± 15.1	187 ± 7.9
666.0	188 ± 21.0	
1000.0		
Trial Summary	Weakly Positive	Equivocal
Positive Control ²		
Positive Control ³	411 ± 21.2	572 ± 20.0
Positive Control ⁴		

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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	36 ± 0.6	24 ± 2.7	14 ± 1.2	14 ± 2.6	13 ± 0.9
1.0	34 ± 2.0	25 ± 4.2			
3.0	34 ± 3.2	25 ± 3.0			
10.0	35 ± 2.3	24 ± 1.5	12 ± 2.2	15 ± 3.0	10 ± 2.6
33.0	33 ± 6.3	23 ± 1.2	13 ± 1.5	17 ± 1.9	12 ± 1.5
100.0	33 ± 4.1	16 ± 2.3	12 ± 2.5	18 ± 1.7	10 ± 0.9
333.0			10 ± 1.2	14 ± 0.7	10 ± 1.5
666.0				8 ± 2.3	
1000.0			3 ± 0.3		4 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					284 ± 13.9
Positive Control ⁴	347 ± 43.9	413 ± 11.4			
Positive Control ⁵			152 ± 13.6	86 ± 0.9	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	7 ± 1.0
1.0	
3.0	
10.0	8 ± 4.0
33.0	9 ± 0.3
100.0	12 ± 1.5
333.0	11 ± 2.4
666.0	7 ± 1.7
1000.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	192 ± 15.2

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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	160 ± 9.5	167 ± 15.0	193 ± 4.5	184 ± 12.0	163 ± 3.6
1.0	162 ± 13.2	171 ± 10.8			
3.0	156 ± 13.5	181 ± 2.3			
10.0	149 ± 4.8	169 ± 11.4	203 ± 12.7	185 ± 5.8	199 ± 12.1
33.0	122 ± 6.6	142 ± 8.2	195 ± 3.8	200 ± 6.6	218 ± 9.2
100.0	86 ± 11.0 ^s	59 ± 16.0 ^s	173 ± 11.7	196 ± 6.5	194 ± 2.5
166.0					
333.0			66 ± 17.8	114 ± 11.7	64 ± 5.9 ^s
666.0				7 ± 3.0	
1000.0			0 ± 0.0 ^s		0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					678 ± 32.2
Positive Control ³			545 ± 36.3		
Positive Control ⁵				408 ± 7.9	
Positive Control ⁶	641 ± 22.4	455 ± 46.4			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	188 ± 6.2	190 ± 5.2	171 ± 5.6
1.0			
3.0			
10.0	214 ± 18.1	200 ± 8.8	183 ± 19.0
33.0	222 ± 20.0	264 ± 17.0	275 ± 11.5
100.0	287 ± 32.7	294 ± 5.5	270 ± 8.7
166.0			227 ± 23.8
333.0	235 ± 16.8	121 ± 8.7	109 ± 5.9
666.0	10 ± 5.6	3 ± 2.7 ^s	
1000.0			
Trial Summary	Equivocal	Weakly Positive	Weakly Positive
Positive Control ²			
Positive Control ³	356 ± 15.0	370 ± 34.7	522 ± 5.0
Positive Control ⁵			
Positive Control ⁶			

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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	22 ± 2.3	21 ± 2.9	44 ± 3.0	32 ± 3.0	26 ± 4.4
1.0	21 ± 4.6	19 ± 1.0			
3.0	21 ± 2.4	22 ± 4.2			
10.0	17 ± 2.4	19 ± 1.0	36 ± 3.1	32 ± 2.7	29 ± 2.6
33.0	13 ± 1.3	17 ± 2.8	36 ± 7.0	42 ± 2.0	37 ± 2.6
100.0	6 ± 1.0 ^s	9 ± 1.5 ^s	36 ± 3.0	42 ± 0.9	32 ± 2.1
333.0			24 ± 3.5	37 ± 4.6	28 ± 2.0
666.0				19 ± 4.7	
1000.0			9 ± 2.6 ^s		11 ± 0.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					651 ± 19.4
Positive Control ³			384 ± 22.2	136 ± 4.4	
Positive Control ⁷	1124 ± 36.5	906 ± 16.1			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	38 ± 3.9
1.0	
3.0	
10.0	27 ± 3.6
33.0	33 ± 4.9
100.0	41 ± 2.3
333.0	30 ± 5.2
666.0	19 ± 1.2
1000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	171 ± 21.7
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: 25.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

**** END OF REPORT ****