

Experiment Number: 237060

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Benzophenone

CAS Number: 119-61-9

Date Report Requested: 09/15/2018

Time Report Requested: 04:31:26

NTP Study Number:

237060

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	118 ± 12.3	118 ± 11.7	105 ± 8.5	146 ± 4.4	111 ± 1.8
1.0	113 ± 7.4				
3.0	107 ± 8.1	125 ± 2.2			95 ± 4.6
10.0	110 ± 10.3	132 ± 7.7	90 ± 6.6	131 ± 4.3	102 ± 7.3
33.0	100 ± 6.4	123 ± 2.8	96 ± 4.2	112 ± 11.7	84 ± 3.9
100.0	110 ± 4.7	114 ± 9.8	99 ± 7.5	124 ± 1.9	78 ± 6.3
166.0		52 ± 7.5 ^s			
333.0			86 ± 7.0	90 ± 6.6	80 ± 4.1
1000.0			50 ± 6.1 ^s	35 ± 10.9 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			922 ± 112.2	1638 ± 60.4	1784 ± 26.1
Positive Control ³	383 ± 14.9	297 ± 16.9			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	133 ± 7.2
1.0	
3.0	130 ± 3.8
10.0	136 ± 4.1
33.0	128 ± 10.7
100.0	154 ± 7.0
166.0	
333.0	117 ± 8.7
1000.0	
Trial Summary	Negative
Positive Control ²	2174 ± 37.4
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	36 ± 1.9	32 ± 2.3	13 ± 3.5	6 ± 1.2	11 ± 2.1
1.0	33 ± 2.5				
3.0	37 ± 0.7	30 ± 3.2			9 ± 1.7
10.0	31 ± 0.7	30 ± 1.2	11 ± 2.7	12 ± 3.0	9 ± 1.8
33.0	26 ± 5.2	27 ± 2.0	8 ± 0.3	6 ± 3.7	10 ± 2.7
100.0	32 ± 3.8	22 ± 5.4	10 ± 2.7	8 ± 3.4	7 ± 0.6
166.0		0 ± 0.0 ^s			
333.0			8 ± 2.7	5 ± 0.3	6 ± 1.5
1000.0			4 ± 1.0	1 ± 0.9 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	395 ± 21.7	404 ± 28.2			
Positive Control ⁴			211 ± 18.1	535 ± 23.0	492 ± 17.2

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	16 ± 1.8
1.0	
3.0	9 ± 1.7
10.0	10 ± 2.2
33.0	10 ± 1.5
100.0	11 ± 3.0
166.0	
333.0	8 ± 0.9
1000.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	691 ± 15.2

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.9	7 ± 0.3	7 ± 0.3	6 ± 1.2	9 ± 0.9
1.0	6 ± 2.1				
3.0	5 ± 0.7	5 ± 1.8			8 ± 2.3
10.0	4 ± 0.9	7 ± 0.6	6 ± 1.2	5 ± 0.7	5 ± 1.2
33.0	6 ± 1.7	6 ± 1.2	6 ± 1.2	13 ± 2.0	7 ± 1.5
100.0	4 ± 0.3	5 ± 1.8	8 ± 0.6	8 ± 0.6	7 ± 1.8
166.0		2 ± 0.3 ^s			
333.0			7 ± 0.9	5 ± 1.5	3 ± 1.5
1000.0			4 ± 1.8	3 ± 0.3 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			132 ± 20.3	509 ± 19.9	408 ± 11.7
Positive Control ⁵	186 ± 19.4	443 ± 51.6			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.6
1.0	
3.0	7 ± 2.4
10.0	8 ± 2.6
33.0	8 ± 2.3
100.0	8 ± 2.7
166.0	
333.0	5 ± 1.5
1000.0	
Trial Summary	Negative
Positive Control ⁴	125 ± 7.3
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	98 ± 78.0	13 ± 2.6	23 ± 2.3	31 ± 3.3	36 ± 2.5
1.0	19 ± 0.3				
3.0	19 ± 3.8	13 ± 4.8			34 ± 3.3
10.0	19 ± 1.9	10 ± 2.4	33 ± 1.3	30 ± 0.7	30 ± 2.8
33.0	20 ± 2.3	17 ± 0.9	21 ± 2.4	27 ± 7.5	31 ± 2.7
100.0	14 ± 1.9	12 ± 2.2	28 ± 5.5	27 ± 1.2	30 ± 3.2
166.0		0 ± 0.0 ^s			
333.0			25 ± 4.5	14 ± 3.2	23 ± 1.0
1000.0			15 ± 2.1	6 ± 0.3 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			867 ± 11.9	1221 ± 9.9	1629 ± 25.7
Positive Control ⁶	475 ± 5.4	431 ± 38.4			

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Test Compound: Benzophenone
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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	32 ± 0.0
1.0	
3.0	39 ± 1.5
10.0	34 ± 4.5
33.0	36 ± 4.2
100.0	33 ± 4.4
166.0	
333.0	15 ± 1.2
1000.0	
Trial Summary	Negative
Positive Control ²	1901 ± 39.4
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 ****