

Experiment Number: 504938

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

G06: Ames Summary Data

Test Compound: **Hexylbenzoate**

CAS Number: **6789-88-4**

Date Report Requested: **09/12/2018**

Time Report Requested: **05:44:16**

NTP Study Number:

504938

Study Result:

Negative

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Test Compound: Hexylbenzoate

CAS Number: 6789-88-4

Date Report Requested: 09/12/2018

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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	110 ± 5.5	116 ± 2.6	106 ± 9.9	117 ± 12.0	100 ± 9.7
0.03		122 ± 8.3			
0.1	115 ± 5.5	123 ± 3.7			
0.3	121 ± 3.5	108 ± 1.7			
1.0	119 ± 7.8	111 ± 1.9			
3.3	90 ± 3.1	108 ± 2.2 ^s	113 ± 0.6		110 ± 9.2
6.7	65 ± 0.6 ^s				
10.0			110 ± 3.7		115 ± 7.4
33.0			104 ± 3.5	133 ± 3.5	107 ± 3.1
100.0			115 ± 2.3	123 ± 3.0	107 ± 4.4
333.0			63 ± 20.2 ^s	94 ± 1.3 ^s	Toxic
1000.0				74 ± 2.7 ^s	
3333.0				51 ± 14.6 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1201 ± 124.3
Positive Control ³	420 ± 1.8	1134 ± 38.0			
Positive Control ⁴			493 ± 58.2		
Positive Control ⁵					
Positive Control ⁶				1557 ± 10.8	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	122 ± 6.5
0.03	
0.1	
0.3	
1.0	
3.3	
6.7	
10.0	
33.0	126 ± 4.1
100.0	127 ± 7.0
333.0	123 ± 3.7
1000.0	87 ± 2.8 ^s
3333.0	33 ± 5.6 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	683 ± 34.0
Positive Control ⁶	

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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	18 ± 3.0	39 ± 3.5	26 ± 2.4	30 ± 4.6	20 ± 0.9
0.03	17 ± 1.9	29 ± 0.9			
0.1	18 ± 6.4	41 ± 3.0			
0.3	22 ± 1.5	33 ± 1.7			
1.0	18 ± 0.3	38 ± 3.8			
3.3	18 ± 2.5	37 ± 2.9	25 ± 2.6	25 ± 2.0	19 ± 1.2
10.0			16 ± 3.3	22 ± 2.7	23 ± 2.1
33.0			21 ± 2.3	27 ± 1.8	17 ± 1.5
100.0			20 ± 1.8	27 ± 3.3	20 ± 2.9
333.0			16 ± 1.2 ^s	22 ± 2.5 ^s	15 ± 1.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					122 ± 10.4
Positive Control ³	249 ± 16.3	828 ± 54.0			
Positive Control ⁵					
Positive Control ⁶			239 ± 16.8	225 ± 17.7	

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Test Compound: Hexylbenzoate

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	23 ± 3.6
0.03	
0.1	
0.3	
1.0	
3.3	18 ± 0.3
10.0	17 ± 4.4
33.0	21 ± 2.9
100.0	19 ± 0.6
333.0	15 ± 2.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	535 ± 65.8
Positive Control ⁶	

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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	115 ± 7.3	99 ± 1.9	122 ± 9.5	180 ± 8.0	123 ± 5.3
0.03	107 ± 4.5	110 ± 3.3			
0.1	103 ± 7.0	107 ± 6.8			
0.3	101 ± 1.5	99 ± 12.1			
1.0	100 ± 6.8	103 ± 2.4			
3.3	89 ± 2.2 ^s	90 ± 7.5 ^s	106 ± 12.0	179 ± 10.0	117 ± 2.0
10.0			118 ± 6.0	188 ± 8.8	104 ± 4.1
33.0			115 ± 5.5	190 ± 5.2	100 ± 2.5
100.0			121 ± 3.0	187 ± 11.0	105 ± 5.2
333.0			109 ± 5.9 ^s	90 ± 4.6 ^s	69 ± 24.1 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁷	283 ± 13.3	285 ± 34.5			
Positive Control ⁴					1119 ± 40.5
Positive Control ⁶			1405 ± 47.1	1415 ± 81.0	
Positive Control ⁸					

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	139 ± 6.2
0.03	
0.1	
0.3	
1.0	
3.3	133 ± 4.6
10.0	133 ± 2.9
33.0	110 ± 8.6
100.0	115 ± 4.5
333.0	102 ± 2.0 ^s
Trial Summary	Negative
Positive Control ⁷	
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁸	2047 ± 64.6

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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	29 ± 1.5	23 ± 2.0	40 ± 5.5	44 ± 2.7	42 ± 4.1
0.03		21 ± 3.5			
0.1	24 ± 0.7	24 ± 2.4			
0.3	25 ± 1.2	24 ± 4.0			
1.0	29 ± 1.2	22 ± 3.2			
3.3	24 ± 0.9	23 ± 2.0	36 ± 3.3		41 ± 5.0
6.7	13 ± 2.7 ^s				
10.0			39 ± 1.3		39 ± 1.2
33.0			46 ± 2.3	37 ± 1.5	33 ± 4.0
100.0			34 ± 5.6	40 ± 2.3	32 ± 5.5
333.0			17 ± 10.7 ^s	25 ± 4.7 ^s	16 ± 9.5 ^s
1000.0				16 ± 3.1 ^s	
3333.0				2 ± 1.2 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			196 ± 6.0		1122 ± 10.5
Positive Control ⁵				337 ± 11.9	
Positive Control ⁹	385 ± 16.2	386 ± 13.4			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	43 ± 5.1
0.03	
0.1	
0.3	
1.0	
3.3	
6.7	
10.0	
33.0	44 ± 2.0
100.0	41 ± 8.1
333.0	34 ± 3.6
1000.0	15 ± 0.6 ^s
3333.0	16 ± 9.6 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ⁵	322 ± 4.6
Positive Control ⁹	

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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: 100% Ethanol

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 0.05 ug/Plate Solvent

8: 2.5 ug/Plate 2-Aminoanthracene

9: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****