

Experiment Number: 148808

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: bis(2-Ethylhexyl)isophthalate

CAS Number: 137-89-3

Date Report Requested: 09/12/2018

Time Report Requested: 14:32:05

NTP Study Number:

148808

Study Result:

Negative

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Test Compound: bis(2-Ethylhexyl)isophthalate
CAS Number: 137-89-3

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	91 ± 4.1	81 ± 1.2	87 ± 0.3	106 ± 3.3	94 ± 6.7
100.0	73 ± 1.8	89 ± 4.6	88 ± 5.4	104 ± 3.8	89 ± 5.3
333.0	76 ± 6.4	85 ± 2.0	88 ± 3.8	98 ± 2.9	100 ± 2.8
1000.0	74 ± 6.8	85 ± 4.5	87 ± 6.0	110 ± 3.8	88 ± 2.0
3333.0	75 ± 2.0	87 ± 7.5	86 ± 3.8	110 ± 8.4	91 ± 9.5
10000.0	79 ± 8.8 ^p	95 ± 8.7	69 ± 5.2 ^p	110 ± 6.1	88 ± 6.4 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					377 ± 16.5
Positive Control ³	309 ± 19.3	351 ± 24.3			
Positive Control ⁴			365 ± 23.4		
Positive Control ⁵					
Positive Control ⁶				385 ± 26.4	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	125 ± 3.8
100.0	111 ± 11.0
333.0	104 ± 10.1
1000.0	112 ± 7.4
3333.0	112 ± 6.6
10000.0	112 ± 4.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	382 ± 16.8
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 ± 3.8	15 ± 3.5	15 ± 3.2	17 ± 1.3	16 ± 0.7
100.0	16 ± 1.2	12 ± 1.0	12 ± 2.6	13 ± 2.7	12 ± 0.7
333.0	14 ± 2.7	16 ± 2.0	18 ± 2.6	17 ± 1.2	21 ± 1.2
1000.0	17 ± 0.9	17 ± 1.5	17 ± 1.2	20 ± 3.2	21 ± 2.2
3333.0	11 ± 1.5	14 ± 1.0	15 ± 1.7	14 ± 1.2	15 ± 1.0
10000.0	16 ± 1.3 ^p	14 ± 1.3	13 ± 0.9 ^p	21 ± 2.2	15 ± 2.7 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					47 ± 1.5
Positive Control ³	211 ± 5.5	203 ± 0.9			
Positive Control ⁵					
Positive Control ⁶			93 ± 5.5	87 ± 8.5	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	20 ± 1.0
100.0	14 ± 1.2
333.0	17 ± 1.5
1000.0	19 ± 1.5
3333.0	16 ± 0.9
10000.0	18 ± 0.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	80 ± 6.4
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	94 ± 3.7	200 ± 5.8	105 ± 0.3	209 ± 11.4	107 ± 1.5
100.0	101 ± 4.5	198 ± 5.6	101 ± 7.4	204 ± 17.6	110 ± 8.0
333.0	98 ± 0.9	190 ± 15.2	97 ± 4.3	224 ± 9.2	98 ± 12.4
1000.0	104 ± 0.7	186 ± 12.9	103 ± 11.8	200 ± 4.9	95 ± 5.5
3333.0	109 ± 8.4	195 ± 9.5	108 ± 7.6	173 ± 7.0	113 ± 3.5
10000.0	108 ± 6.7	229 ± 8.3	96 ± 7.8 ^s	195 ± 2.1	100 ± 7.5 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					444 ± 18.8
Positive Control ⁶			455 ± 39.3		
Positive Control ⁷				448 ± 15.1	
Positive Control ⁸	272 ± 3.0				
Positive Control ⁹		482 ± 26.6			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	178 ± 3.2
100.0	180 ± 6.2
333.0	168 ± 0.9
1000.0	162 ± 8.3
3333.0	148 ± 6.3
10000.0	169 ± 2.8
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	831 ± 43.5
Positive Control ⁸	
Positive Control ⁹	

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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 ± 1.5	22 ± 1.8	26 ± 3.5	28 ± 1.9	31 ± 2.5
100.0	15 ± 1.0	18 ± 1.5	26 ± 2.1	35 ± 3.5	27 ± 3.1
333.0	17 ± 3.0	19 ± 3.2	23 ± 2.0	27 ± 0.0	25 ± 0.9
1000.0	14 ± 1.2	25 ± 1.0	20 ± 1.9	25 ± 4.5	25 ± 2.0
3333.0	14 ± 1.7	15 ± 2.3	23 ± 2.6	29 ± 1.2	22 ± 1.2
10000.0	16 ± 1.2 ^p	19 ± 2.2	24 ± 3.3 ^p	30 ± 3.2	23 ± 3.4 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					80 ± 1.7
Positive Control ²			156 ± 14.4		
Positive Control ¹¹	116 ± 3.8	139 ± 5.1			
Positive Control ⁵				134 ± 7.8	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	35 ± 0.9
100.0	31 ± 2.0
333.0	30 ± 0.6
1000.0	31 ± 6.7
3333.0	29 ± 2.8
10000.0	33 ± 4.0
Trial Summary	Negative
Positive Control ¹⁰	
Positive Control ²	151 ± 14.4
Positive Control ¹¹	
Positive Control ⁵	

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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: 95% 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: 2.5 ug/Plate 2-Aminoanthracene

8: 3.5 ug/Plate 9-Aminoacridine

9: 4.0 ug/Plate 9-Aminoacridine

10: 0.2 ug/Plate 2-Aminoanthracene

11: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

**** END OF REPORT ****