

Experiment Number: 101496

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Aroclor 1254

CAS Number: 11097-69-1

Date Report Requested: 09/11/2018

Time Report Requested: 13:37:17

NTP Study Number:

101496

Study Result:

Negative

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Date Report Requested: 09/11/2018
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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	102 ± 2.0	82 ± 6.2	99 ± 0.6	110 ± 4.2	93 ± 10.4
100.0	93 ± 3.5	82 ± 8.8	90 ± 3.1	131 ± 7.6	92 ± 2.3
333.0	87 ± 6.2	78 ± 1.5	85 ± 4.2	99 ± 3.0	99 ± 3.5
1000.0	91 ± 3.5	76 ± 9.2	73 ± 4.2	112 ± 1.7 ^p	93 ± 0.9
3333.0	89 ± 3.8 ^p	71 ± 4.3	84 ± 8.8	102 ± 7.8 ^p	82 ± 5.8
10000.0	89 ± 3.2 ^p	70 ± 5.9 ^p	84 ± 3.7 ^p	111 ± 3.2 ^p	85 ± 8.6 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					178 ± 3.3
Positive Control ³	444 ± 9.3	246 ± 7.4			
Positive Control ⁴			361 ± 6.9		
Positive Control ⁵					
Positive Control ⁶				300 ± 9.3	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	103 ± 7.0
100.0	90 ± 3.5
333.0	94 ± 3.5
1000.0	93 ± 1.5 ^p
3333.0	89 ± 7.0 ^p
10000.0	102 ± 3.8 ^p
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	363 ± 29.7
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	16 ± 2.3	15 ± 1.3	7 ± 1.7	11 ± 1.2	9 ± 0.9
100.0	15 ± 2.2	18 ± 2.6	9 ± 2.2	9 ± 1.5	4 ± 0.3
333.0	11 ± 3.3	14 ± 1.0	7 ± 0.7	7 ± 0.0	4 ± 0.9
1000.0	17 ± 3.8	12 ± 3.5	5 ± 0.3	6 ± 2.3	4 ± 0.3
3333.0	13 ± 1.3	10 ± 0.7	4 ± 1.7	7 ± 1.9	4 ± 1.5
10000.0	11 ± 2.6 ^p	8 ± 1.0 ^p	4 ± 0.9 ^p	7 ± 2.4 ^p	11 ± 2.1 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					20 ± 0.9
Positive Control ³	154 ± 1.7	84 ± 6.5			
Positive Control ⁵					
Positive Control ⁶			117 ± 13.9	83 ± 6.7	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	8 ± 0.9
100.0	7 ± 0.9
333.0	8 ± 1.5
1000.0	6 ± 0.9
3333.0	7 ± 1.5
10000.0	8 ± 2.4 ^P
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	98 ± 17.1
Positive Control ⁶	

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G06: Ames Summary Data

Test Compound: Aroclor 1254

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	4 ± 1.3	6 ± 1.9	7 ± 0.6	9 ± 0.3	9 ± 0.9
100.0	4 ± 1.5	10 ± 1.0	9 ± 1.5	7 ± 1.7	9 ± 1.2
333.0	3 ± 0.7	10 ± 1.7	8 ± 1.9	7 ± 2.2	4 ± 1.5
1000.0	5 ± 0.3	7 ± 1.2	8 ± 2.7	10 ± 0.6	7 ± 1.7
3333.0	4 ± 0.3	9 ± 2.0	6 ± 2.2	9 ± 1.0	3 ± 0.7
10000.0	4 ± 0.3 ^p	7 ± 0.9 ^p	8 ± 1.2 ^p	6 ± 2.1 ^p	9 ± 2.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					89 ± 4.2
Positive Control ⁶			145 ± 6.4		
Positive Control ⁷				42 ± 4.5	
Positive Control ⁸	173 ± 42.1	63 ± 4.7			

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Strain: TA1537

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 0.9
100.0	7 ± 1.7
333.0	9 ± 1.2
1000.0	11 ± 1.2
3333.0	4 ± 1.2
10000.0	5 ± 0.9 ^p
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	96 ± 7.2
Positive Control ⁸	

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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	76 ± 4.7	76 ± 4.2	117 ± 7.4	158 ± 8.5	115 ± 9.5
100.0	81 ± 4.1	87 ± 5.2	105 ± 4.6	109 ± 9.5	113 ± 0.6
333.0	81 ± 10.2	92 ± 6.7	101 ± 5.9	113 ± 3.3	108 ± 7.5
1000.0	76 ± 4.1	94 ± 1.0	95 ± 7.1	107 ± 1.2	109 ± 3.6
3333.0	87 ± 3.3	91 ± 4.2	98 ± 6.4	92 ± 5.2	113 ± 6.9
10000.0	83 ± 5.2 ^p	84 ± 3.5 ^p	96 ± 4.7 ^p	93 ± 7.6 ^p	101 ± 1.8 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					527 ± 39.2
Positive Control ⁶			845 ± 4.0		
Positive Control ⁷				323 ± 8.7	
Positive Control ⁹	470 ± 23.8	238 ± 18.4			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	110 ± 4.5
100.0	110 ± 6.0
333.0	111 ± 7.1
1000.0	112 ± 3.2
3333.0	108 ± 4.3
10000.0	106 ± 7.5 ^p
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	681 ± 37.8
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	12 ± 2.8	11 ± 1.5	17 ± 2.9	23 ± 2.9	22 ± 3.4
100.0	14 ± 2.7	8 ± 2.0	17 ± 1.2	28 ± 1.0	23 ± 3.2
333.0	14 ± 2.2	12 ± 2.9	20 ± 2.5	27 ± 4.6	23 ± 3.8
1000.0	11 ± 1.2	12 ± 1.5	21 ± 6.2	23 ± 0.6 ^P	15 ± 2.6
3333.0	15 ± 2.6 ^P	10 ± 1.8	19 ± 2.3	18 ± 2.9 ^P	14 ± 1.5
10000.0	12 ± 1.8 ^P	10 ± 0.7 ^P	19 ± 1.7 ^P	30 ± 3.8 ^S	22 ± 2.0 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ¹⁰					118 ± 8.1
Positive Control ²			44 ± 6.1		
Positive Control ¹¹	228 ± 7.0	153 ± 4.8			
Positive Control ⁵				83 ± 1.2	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	31 ± 2.0
100.0	27 ± 3.0
333.0	27 ± 5.2
1000.0	18 ± 2.7 ^P
3333.0	22 ± 2.3 ^P
10000.0	24 ± 1.5 ^P
Trial Summary	Negative
Positive Control ¹⁰	
Positive Control ²	109 ± 4.8
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: Dimethyl Sulfoxide

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: 4.0 ug/Plate 9-Aminoacridine

9: 8.0 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 ****