

Experiment Number: 909289
Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data
Test Compound: Fenthion
CAS Number: 55-38-9

Date Report Requested: 09/17/2018
Time Report Requested: 01:42:55

NTP Study Number: 909289
Study Result: Weakly Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	122 ± 8.1	121 ± 7.2	115 ± 7.8
33.0	115 ± 10.2		
100.0	120 ± 9.8	101 ± 9.6	111 ± 10.5
333.0	105 ± 8.5 ^S	104 ± 7.8	104 ± 3.4
1000.0	98 ± 3.4 ^S	101 ± 5.5	104 ± 7.5
3333.0	90 ± 15.2 ^S	97 ± 5.6 ^P	89 ± 6.5 ^P
10000.0		92 ± 4.4 ^P	87 ± 6.2 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ²			2027 ± 245.3
Positive Control ³		2146 ± 90.0	
Positive Control ⁴	1767 ± 191.1		

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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	24 ± 3.8	18 ± 3.6	10 ± 3.2	11 ± 1.0	11 ± 0.3
33.0	20 ± 1.3				
50.0		21 ± 2.4		13 ± 1.3	
100.0	22 ± 2.9	22 ± 3.1	19 ± 2.3	24 ± 1.5	10 ± 1.5
250.0		14 ± 1.5		27 ± 5.9	
333.0	19 ± 2.2 ^S		20 ± 1.5		18 ± 3.5
500.0		16 ± 3.8		31 ± 5.2	
750.0		21 ± 1.2		37 ± 3.8	
1000.0	17 ± 1.7 ^S	16 ± 2.4	28 ± 3.1	26 ± 5.9	12 ± 2.9
1500.0		16 ± 3.0 ^P		22 ± 4.6	
2000.0		17 ± 3.6 ^S		28 ± 6.4	
3333.0	19 ± 2.8 ^S		20 ± 2.2 ^P		17 ± 1.7 ^P
10000.0			16 ± 1.2 ^P		13 ± 1.8 ^P
Trial Summary	Negative	Negative	Weakly Positive	Positive	Negative
Positive Control ²					179 ± 11.0
Positive Control ³			138 ± 4.6	123 ± 0.3	
Positive Control ⁴	1252 ± 62.9	1088 ± 59.6			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 3.2
33.0	
50.0	12 ± 0.3
100.0	10 ± 1.9
250.0	13 ± 1.8
333.0	
500.0	14 ± 1.2
750.0	19 ± 4.0
1000.0	12 ± 2.4
1500.0	14 ± 1.8
2000.0	16 ± 2.6
3333.0	
10000.0	
Trial Summary	Negative
Positive Control ²	152 ± 8.6
Positive Control ³	
Positive Control ⁴	

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 0.9	7 ± 1.2	9 ± 2.4
33.0	5 ± 1.7		
100.0	8 ± 1.2	7 ± 2.2	7 ± 2.3
333.0	8 ± 2.5	5 ± 0.6	7 ± 1.5
1000.0	4 ± 0.7 ^s	9 ± 1.9	7 ± 1.3
3333.0	5 ± 1.2 ^s	8 ± 1.5 ^p	4 ± 2.5 ^p
10000.0		6 ± 0.7 ^p	8 ± 0.9 ^p
Trial Summary	Negative	Negative	Negative
Positive Control ²			241 ± 42.3
Positive Control ³		135 ± 17.1	
Positive Control ⁵	379 ± 74.9		

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 1.9	30 ± 4.7	30 ± 6.2
33.0	16 ± 3.7		
100.0	19 ± 1.5	29 ± 0.9	31 ± 0.9
333.0	14 ± 1.8	20 ± 1.8	22 ± 3.5
1000.0	15 ± 1.2	25 ± 2.3	21 ± 2.6
3333.0	18 ± 4.5 ^p	20 ± 0.7 ^p	26 ± 2.9 ^p
10000.0		20 ± 3.2 ^p	15 ± 1.5 ^p
Trial Summary	Negative	Negative	Negative
Positive Control ²			2209 ± 33.9
Positive Control ³		1381 ± 78.7	
Positive Control ⁶	1924 ± 64.3		

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

s: Slight Toxicity

** END OF REPORT **