

Experiment Number: 512404

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

G06: Ames Summary Data

Test Compound: **Parathion**

CAS Number: **56-38-2**

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

Time Report Requested: **11:31:10**

NTP Study Number:

512404

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	113 ± 15.1	105 ± 7.6	89 ± 5.8
100.0	125 ± 17.5	131 ± 12.1	97 ± 8.3
333.0	112 ± 9.0	129 ± 2.0	102 ± 6.5
1000.0	121 ± 3.5	140 ± 15.5	118 ± 6.4
3333.0	105 ± 10.2 ^P	122 ± 9.2 ^P	115 ± 4.6 ^P
10000.0	124 ± 6.6 ^S	120 ± 8.7 ^P	118 ± 7.2 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ²			2486 ± 127.6
Positive Control ³		1481 ± 90.5	
Positive Control ⁴	2018 ± 9.6		

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	29 ± 3.5	12 ± 2.6	11 ± 1.5
100.0	25 ± 5.1	15 ± 1.7	14 ± 1.2
333.0	31 ± 1.3	15 ± 4.7	10 ± 1.5
1000.0	22 ± 2.3	18 ± 1.7	14 ± 3.0
3333.0	27 ± 1.9 ^P	14 ± 2.1 ^P	10 ± 2.1 ^P
10000.0	26 ± 2.1 ^P	11 ± 0.6 ^P	9 ± 1.2 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ²			145 ± 2.9
Positive Control ³		108 ± 8.7	
Positive Control ⁴	1178 ± 34.5		

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	5 ± 1.8	5 ± 1.0	10 ± 0.7	9 ± 2.5	6 ± 1.2
100.0	8 ± 1.5			9 ± 1.2	
333.0	11 ± 1.2	11 ± 0.7	11 ± 1.8	7 ± 0.6	10 ± 2.7
1000.0	15 ± 0.6	12 ± 0.9	17 ± 1.8	8 ± 1.3	10 ± 1.5
2000.0		12 ± 2.5	18 ± 1.3		6 ± 1.3 ^p
3333.0	18 ± 2.2 ^p	16 ± 2.9	21 ± 1.7	10 ± 2.1 ^p	13 ± 0.6 ^p
5000.0		12 ± 2.3 ^p	19 ± 0.6 ^p		13 ± 0.6 ^p
10000.0	14 ± 3.4 ^p	16 ± 1.3 ^p	21 ± 2.0 ^p	13 ± 0.6 ^p	16 ± 3.4 ^p
Trial Summary	Positive	Positive	Positive	Negative	Positive
Positive Control ²					
Positive Control ³				137 ± 11.0	75 ± 3.7
Positive Control ⁵	191 ± 23.4	213 ± 55.4	564 ± 63.6		

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 2.5	8 ± 1.0	10 ± 0.7	17 ± 1.5
100.0		8 ± 0.7		
333.0	18 ± 3.2	8 ± 1.2	8 ± 1.2	13 ± 2.8
1000.0	14 ± 1.5 ^P	12 ± 1.3	12 ± 0.9	11 ± 0.9 ^P
2000.0	17 ± 2.1 ^P		10 ± 0.4 ^P	17 ± 0.3 ^P
3333.0	15 ± 2.8 ^P	17 ± 3.2 ^P	17 ± 2.0 ^P	16 ± 2.0 ^P
5000.0	16 ± 0.6 ^P		17 ± 3.5 ^P	15 ± 1.2 ^P
10000.0	16 ± 2.4 ^P	14 ± 1.0 ^S	14 ± 3.7 ^P	24 ± 5.0 ^P
Trial Summary	Negative	Positive	Equivocal	Negative
Positive Control ²		243 ± 47.9	217 ± 37.3	151 ± 13.3
Positive Control ³	61 ± 3.9			
Positive Control ⁵				

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Strain: TA98

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 2.7	34 ± 4.5	27 ± 2.5
100.0	10 ± 1.7	23 ± 4.3	24 ± 3.3
333.0	16 ± 2.0	19 ± 0.7	19 ± 2.0
1000.0	15 ± 1.8	27 ± 2.6	25 ± 3.5
3333.0	13 ± 1.5 ^P	23 ± 0.3 ^P	25 ± 2.2 ^P
10000.0	19 ± 1.5 ^P	31 ± 0.6 ^P	21 ± 4.1 ^P
Trial Summary	Negative	Negative	Negative
Positive Control ²			1898 ± 81.9
Positive Control ³		931 ± 54.8	
Positive Control ⁶	1536 ± 44.0		

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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 ****