

Experiment Number: 533981

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

G06: Ames Summary Data

Test Compound: **Parathion**

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

Date Report Requested: **09/13/2018**

Time Report Requested: **00:03:45**

NTP Study Number:

533981

Study Result:

Negative

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Date Report Requested: 09/13/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	88 ± 9.3	97 ± 8.6	123 ± 4.1	126 ± 12.5	83 ± 3.3
100.0	71 ± 8.0	90 ± 7.2	113 ± 3.2	120 ± 2.2	99 ± 10.7
333.0	66 ± 8.9	82 ± 7.6	108 ± 3.0	106 ± 9.5	111 ± 6.2
1000.0	68 ± 1.2	82 ± 0.6	129 ± 13.6	147 ± 2.4	132 ± 11.6
3333.0	71 ± 1.5	72 ± 11.3 ^p	128 ± 5.2	107 ± 9.3 ^p	111 ± 17.4
10000.0	112 ± 5.8	68 ± 11.3 ^p	131 ± 8.2	106 ± 20.3 ^p	125 ± 3.3
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²			976 ± 46.8	564 ± 69.8	1193 ± 92.2
Positive Control ³	545 ± 10.8	673 ± 38.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	121 ± 5.4
100.0	115 ± 9.8
333.0	113 ± 7.6
1000.0	132 ± 6.1
3333.0	153 ± 6.4 ^P
10000.0	111 ± 13.0 ^P
Trial Summary	Negative
Positive Control ²	1862 ± 26.4
Positive Control ³	

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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	6 ± 0.6	6 ± 1.2	3 ± 0.6	8 ± 2.3	3 ± 0.9
100.0	6 ± 1.2	4 ± 0.3	4 ± 0.6	10 ± 0.7	2 ± 0.3
333.0	5 ± 0.9	5 ± 1.3	4 ± 0.9	10 ± 1.3	3 ± 0.9
1000.0	3 ± 0.7	6 ± 1.0	5 ± 1.0	9 ± 2.0	2 ± 0.3
3333.0	3 ± 0.9	4 ± 0.3 ^p	2 ± 0.3	4 ± 1.5 ^p	1 ± 0.6
10000.0	7 ± 1.2	4 ± 0.6 ^p	1 ± 0.3	6 ± 1.5 ^p	2 ± 0.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			163 ± 6.3	97 ± 8.1	176 ± 19.6
Positive Control ³	109 ± 14.7	123 ± 3.8			

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Date Report Requested: 09/13/2018
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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.5
100.0	7 ± 1.8
333.0	5 ± 1.3
1000.0	9 ± 0.9
3333.0	8 ± 1.8 ^p
10000.0	7 ± 0.9 ^p
Trial Summary	Negative
Positive Control ²	137 ± 11.7
Positive Control ³	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.9	5 ± 1.5	5 ± 0.7	8 ± 2.1	7 ± 1.0
100.0	6 ± 2.0	4 ± 0.6	6 ± 1.2	9 ± 2.4	9 ± 1.2
333.0	6 ± 1.3	4 ± 0.7	9 ± 1.9	15 ± 1.5	8 ± 0.6
1000.0	6 ± 1.8	4 ± 0.6	11 ± 1.2	6 ± 1.2	6 ± 0.9
3333.0	2 ± 1.2	4 ± 0.9 ^p	7 ± 1.5	8 ± 1.3 ^p	6 ± 1.2
10000.0	9 ± 3.1	11 ± 3.8 ^p	11 ± 3.0	8 ± 0.3 ^p	10 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			127 ± 14.2	35 ± 7.5	171 ± 22.7
Positive Control ⁴	218 ± 25.8	309 ± 18.3			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	11 ± 4.5
100.0	8 ± 1.5
333.0	11 ± 0.6
1000.0	12 ± 3.6
3333.0	12 ± 2.3 ^p
10000.0	7 ± 1.2 ^p
Trial Summary	Negative
Positive Control ²	143 ± 10.7
Positive Control ⁴	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 2.6	17 ± 1.5	22 ± 3.9	27 ± 1.0	23 ± 5.7
100.0	17 ± 5.7	23 ± 2.3	16 ± 2.3	19 ± 4.4	20 ± 2.1
333.0	21 ± 1.7	19 ± 3.3	21 ± 1.5	27 ± 5.4	28 ± 1.2
1000.0	19 ± 1.2	21 ± 2.4	22 ± 3.5	27 ± 2.2	28 ± 2.1
3333.0	20 ± 2.8	23 ± 4.9 ^p	25 ± 0.9	23 ± 4.7 ^p	16 ± 0.6
10000.0	26 ± 1.5	19 ± 0.3 ^p	27 ± 2.3	24 ± 5.0 ^p	23 ± 3.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			714 ± 94.9	446 ± 64.1	841 ± 139.0
Positive Control ⁵	645 ± 115.8	276 ± 34.2			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	26 ± 3.0
100.0	25 ± 2.0
333.0	20 ± 1.9
1000.0	23 ± 7.2
3333.0	19 ± 2.3 ^P
10000.0	20 ± 0.7 ^P
Trial Summary	Negative
Positive Control ²	1434 ± 8.7
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: 1.0 ug/Plate 2-Aminoanthracene

3: 3.3 ug/Plate Sodium Azide

4: 33.0 ug/Plate 9-Aminoacridine

5: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

p: Precipitate

**** END OF REPORT ****