

Experiment Number: **049060**

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

G06: Ames Summary Data

Test Compound: **Methyl parathion**

CAS Number: **298-00-0**

Date Report Requested: **09/15/2018**

Time Report Requested: **02:01:30**

NTP Study Number: 049060

Study Result: Positive

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Date Report Requested: 09/15/2018
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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	117 ± 5.2	133 ± 5.2	125 ± 6.7	104 ± 1.8	129 ± 9.9
10.0	126 ± 10.1		129 ± 2.6		110 ± 13.4
33.0	124 ± 4.2	123 ± 4.0	136 ± 3.5		118 ± 1.2
100.0	125 ± 10.8	143 ± 1.7	155 ± 8.1	131 ± 14.8	135 ± 3.5
333.0	194 ± 6.9 ^s	176 ± 10.0 ^s	216 ± 2.6	189 ± 7.0	216 ± 15.4
445.0		187 ± 4.4 ^s			
667.0	291 ± 5.7 ^s	248 ± 17.0 ^s			
1000.0			427 ± 19.0	380 ± 23.5 ^s	510 ± 15.9
1500.0				400 ± 18.6 ^s	
2000.0				159 ± 23.4 ^s	
Trial Summary	Positive	Weakly Positive	Positive	Positive	Positive
Positive Control ²					1550 ± 13.3
Positive Control ³			782 ± 12.2	824 ± 22.6	
Positive Control ⁴	1517 ± 39.9	1083 ± 14.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	123 ± 3.5
10.0	
33.0	
100.0	120 ± 9.9
333.0	240 ± 9.9
445.0	
667.0	
1000.0	457 ± 24.7
1500.0	466 ± 68.5 ^s
2000.0	220 ± 36.5 ^s
Trial Summary	Positive
Positive Control ²	1132 ± 71.9
Positive Control ³	
Positive Control ⁴	

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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	26 ± 3.6	24 ± 2.4	13 ± 1.7	9 ± 1.5	10 ± 1.2
10.0	25 ± 6.2		10 ± 1.2		10 ± 0.6
33.0	23 ± 2.9	27 ± 1.3	15 ± 1.7		12 ± 2.3
100.0	26 ± 0.9	23 ± 1.0	19 ± 0.9	13 ± 0.6	15 ± 3.3
333.0	18 ± 0.9 ^s	20 ± 2.8 ^s	25 ± 3.7	23 ± 1.8	24 ± 1.0
445.0		19 ± 3.0 ^s			
667.0	24 ± 3.4 ^s	20 ± 2.0 ^s			
1000.0			32 ± 6.0	24 ± 3.5 ^s	51 ± 3.5
1500.0				31 ± 1.0 ^s	
2000.0				38 ± 9.7 ^s	
Trial Summary	Negative	Negative	Weakly Positive	Positive	Positive
Positive Control ²					63 ± 8.4
Positive Control ³			47 ± 4.0	45 ± 3.8	
Positive Control ⁴	1173 ± 19.3	726 ± 23.1			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.2
10.0	
33.0	
100.0	15 ± 2.6
333.0	22 ± 2.9
445.0	
667.0	
1000.0	31 ± 2.6
1500.0	41 ± 1.9 ^s
2000.0	30 ± 2.2 ^s
Trial Summary	Positive
Positive Control ²	61 ± 3.2
Positive Control ³	
Positive Control ⁴	

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Date Report Requested: 09/15/2018
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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	9 ± 1.2	6 ± 1.2	12 ± 2.1
10.0	7 ± 1.2	10 ± 1.5	10 ± 2.2
33.0	11 ± 1.8	7 ± 0.3	12 ± 1.2
100.0	7 ± 1.5	10 ± 0.7	9 ± 0.7
333.0	6 ± 0.3 ^s	9 ± 2.7	10 ± 1.8
667.0	5 ± 0.6 ^s		
1000.0		9 ± 1.0	16 ± 1.7
Trial Summary	Negative	Negative	Negative
Positive Control ²			177 ± 9.0
Positive Control ³		66 ± 6.4	
Positive Control ⁵	533 ± 17.7		

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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	21 ± 2.1	17 ± 0.9	28 ± 1.2	24 ± 2.4	29 ± 6.1
10.0	17 ± 2.3		24 ± 1.2		38 ± 5.1
33.0	20 ± 1.7	20 ± 3.8	32 ± 2.6		34 ± 2.0
100.0	23 ± 3.8	20 ± 2.0	31 ± 0.6	22 ± 1.3	35 ± 1.8
333.0	22 ± 1.5	19 ± 3.8	32 ± 4.9	23 ± 4.1	34 ± 5.0
445.0		24 ± 0.3			
667.0	21 ± 2.1 ^s	25 ± 2.3 ^s			
1000.0			42 ± 2.2	31 ± 2.4	60 ± 6.1
1500.0				32 ± 2.6	
2000.0				34 ± 8.6 ^s	
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					1833 ± 58.2
Positive Control ³			856 ± 34.5	415 ± 24.7	
Positive Control ⁶	2032 ± 55.2	1364 ± 42.0			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	22 ± 2.3
10.0	
33.0	
100.0	30 ± 2.6
333.0	30 ± 4.8
445.0	
667.0	
1000.0	30 ± 4.2
1500.0	63 ± 0.9
2000.0	68 ± 4.3 ^s
Trial Summary	Positive
Positive Control ²	744 ± 22.4
Positive Control ³	
Positive Control ⁶	

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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

s: Slight Toxicity

**** END OF REPORT ****