

Experiment Number: 842521

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Dimethyl methylphosphonate

CAS Number: 756-79-6

Date Report Requested: 09/16/2018

Time Report Requested: 00:37:31

NTP Study Number:

842521

Study Result:

Negative

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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	129 ± 4.3	130 ± 6.2	142 ± 6.1	129 ± 0.9	125 ± 1.7
100.0	138 ± 3.8	135 ± 8.7	145 ± 8.3	133 ± 4.7	141 ± 9.4
333.0	138 ± 3.1	117 ± 7.0	145 ± 5.8	118 ± 10.7	137 ± 11.0
1000.0	140 ± 9.3	133 ± 2.7	151 ± 6.9	140 ± 6.7	143 ± 11.6
3333.0	142 ± 6.5	129 ± 6.6	136 ± 4.0	125 ± 10.1	129 ± 11.1
10000.0	149 ± 9.3	138 ± 2.8	135 ± 3.4	127 ± 4.6	131 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					891 ± 18.7
Positive Control ³			784 ± 10.7	650 ± 67.0	
Positive Control ⁴	1066 ± 24.3	934 ± 19.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	132 ± 4.4
100.0	118 ± 5.0
333.0	119 ± 6.8
1000.0	132 ± 4.3
3333.0	135 ± 7.6
10000.0	132 ± 3.5
Trial Summary	Negative
Positive Control ²	527 ± 84.8
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 ± 2.3	26 ± 2.4	13 ± 3.3	12 ± 1.9	11 ± 2.3
100.0	25 ± 3.8	25 ± 2.6	13 ± 2.1	10 ± 0.3	8 ± 0.7
333.0	27 ± 5.0	21 ± 2.5	11 ± 1.2	13 ± 0.9	8 ± 1.2
1000.0	26 ± 2.6	26 ± 3.2	13 ± 1.2	13 ± 1.7	9 ± 1.3
3333.0	28 ± 3.2	25 ± 2.3	11 ± 1.2	9 ± 0.6	10 ± 0.6
10000.0	27 ± 4.7	22 ± 1.5	14 ± 2.6	10 ± 2.1	12 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					59 ± 6.8
Positive Control ³			62 ± 8.5	27 ± 2.2	
Positive Control ⁴	823 ± 9.9	689 ± 35.2			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	12 ± 1.5
100.0	8 ± 0.9
333.0	10 ± 1.7
1000.0	9 ± 1.9
3333.0	8 ± 1.9
10000.0	12 ± 1.9
Trial Summary	Negative
Positive Control ²	30 ± 3.3
Positive Control ³	
Positive Control ⁴	

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Test Compound: Dimethyl methylphosphonate
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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	7 ± 0.7	6 ± 1.5	8 ± 0.9	11 ± 2.6	4 ± 1.3
100.0	8 ± 1.2	5 ± 2.3	5 ± 0.7	9 ± 2.1	8 ± 0.6
333.0	7 ± 0.3	5 ± 1.3	7 ± 2.3	7 ± 0.6	8 ± 0.3
1000.0	4 ± 0.6	5 ± 1.0	7 ± 0.3	8 ± 1.2	7 ± 1.2
3333.0	10 ± 2.2	7 ± 0.3	11 ± 2.3	6 ± 0.7	7 ± 0.6
10000.0	6 ± 1.5	8 ± 0.0	8 ± 0.7	10 ± 0.3	5 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					68 ± 8.2
Positive Control ³			52 ± 4.7	63 ± 4.2	
Positive Control ⁵	231 ± 57.8	294 ± 52.6			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.9
100.0	9 ± 1.8
333.0	9 ± 2.7
1000.0	9 ± 3.5
3333.0	9 ± 2.7
10000.0	9 ± 1.7
Trial Summary	Negative
Positive Control ²	74 ± 4.8
Positive Control ³	
Positive Control ⁵	

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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 ± 0.3	19 ± 3.4	31 ± 3.2	28 ± 1.7	31 ± 2.6
100.0	20 ± 1.5	14 ± 0.9	38 ± 4.1	23 ± 3.8	30 ± 3.6
333.0	22 ± 3.1	15 ± 3.8	35 ± 2.9	21 ± 4.4	26 ± 3.2
1000.0	21 ± 4.4	15 ± 0.3	31 ± 2.3	31 ± 4.3	32 ± 3.1
3333.0	24 ± 4.1	17 ± 3.5	25 ± 2.0	27 ± 2.0	33 ± 2.3
10000.0	18 ± 2.2	18 ± 5.1	34 ± 3.2	20 ± 1.5	25 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					816 ± 30.5
Positive Control ³			697 ± 6.7	447 ± 41.3	
Positive Control ⁶	1352 ± 60.1	1129 ± 34.0			

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Test Compound: Dimethyl methylphosphonate

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	30 ± 2.6
100.0	27 ± 0.7
333.0	27 ± 1.9
1000.0	30 ± 3.0
3333.0	23 ± 2.2
10000.0	25 ± 1.0
Trial Summary	Negative
Positive Control ²	396 ± 61.9
Positive Control ³	
Positive Control ⁶	

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Test Compound: **Dimethyl methylphosphonate**

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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: Water

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

**** END OF REPORT ****