

Experiment Number: 607160

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Phosphamidon

CAS Number: 13171-21-6

Date Report Requested: 09/15/2018

Time Report Requested: 01:12:08

NTP Study Number:

607160

Study Result:

Positive

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 15% Rat S9
Vehicle Control ¹	164 ± 8.0	158 ± 5.0	131 ± 11.6	130 ± 6.3	152 ± 1.7
3.3		147 ± 7.1			
10.0		152 ± 6.5			
33.0	157 ± 6.7	131 ± 0.6			
100.0	157 ± 1.7	165 ± 6.9	126 ± 1.8		
333.0	179 ± 7.2 ^s	162 ± 12.5 ^s	123 ± 12.3		
1000.0	181 ± 4.1 ^s		137 ± 10.8	141 ± 2.8	157 ± 5.8
2000.0					167 ± 13.2
3333.0	186 ± 1.5 ^s		151 ± 8.9	168 ± 6.8	
4000.0					182 ± 4.9
5000.0				182 ± 8.2	
8000.0				189 ± 17.5	234 ± 7.4
9000.0					283 ± 17.1
10000.0			252 ± 17.9 ^s	244 ± 6.0 ^s	290 ± 1.8 ^s
Trial Summary	Negative	Negative	Equivocal	Positive	Positive
Positive Control ²					
Positive Control ³			1466 ± 43.2	1008 ± 32.2	570 ± 29.6
Positive Control ⁴	3002 ± 30.5	2304 ± 44.7			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9	With 15% Hamster S9
Vehicle Control ¹	138 ± 8.4	143 ± 6.5	126 ± 11.3
3.3			
10.0			
33.0			
100.0	129 ± 12.3		
333.0	132 ± 4.9		
1000.0	149 ± 15.5	155 ± 5.5	148 ± 10.9
2000.0			177 ± 4.5
3333.0	171 ± 9.9	179 ± 4.6	
4000.0			177 ± 10.7
5000.0		201 ± 20.1	
8000.0		280 ± 18.1	232 ± 15.8
9000.0			281 ± 1.9 ^s
10000.0	220 ± 14.5 ^s	283 ± 8.1 ^s	259 ± 8.8 ^s
Trial Summary	Equivocal	Positive	Positive
Positive Control ²	1942 ± 64.0	1512 ± 60.4	1229 ± 41.3
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	49 ± 5.5	36 ± 1.9	12 ± 1.5	14 ± 2.3	8 ± 0.7
3.3		37 ± 1.5			
10.0		44 ± 6.3			
33.0	50 ± 3.8	39 ± 6.1			
100.0	51 ± 6.8	37 ± 2.3	14 ± 1.8		11 ± 0.9
333.0	39 ± 3.0 ^s	29 ± 3.2 ^s	12 ± 1.2		12 ± 0.6
1000.0	35 ± 2.9 ^s		13 ± 1.8	11 ± 1.5	11 ± 2.0
3333.0	24 ± 5.4 ^s		14 ± 1.0	14 ± 3.5	12 ± 3.2
5000.0				12 ± 2.0	
8000.0				14 ± 4.1	
10000.0			20 ± 3.1 ^s	12 ± 2.3 ^s	12 ± 2.0 ^s
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²					152 ± 2.3
Positive Control ³			138 ± 7.6	56 ± 1.2	
Positive Control ⁴	2301 ± 52.7	1470 ± 20.9			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	23 ± 1.5
3.3	
10.0	
33.0	
100.0	
333.0	
1000.0	28 ± 0.9
3333.0	30 ± 1.3
5000.0	31 ± 3.0
8000.0	27 ± 1.5
10000.0	28 ± 3.5 ^s
Trial Summary	Negative
Positive Control ²	134 ± 5.3
Positive Control ³	
Positive Control ⁴	

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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	5 ± 0.3	10 ± 2.6	11 ± 2.7	11 ± 0.7	11 ± 1.5
3.3		6 ± 2.3			
10.0		6 ± 1.3			
33.0	6 ± 1.9	6 ± 0.9			
100.0	11 ± 0.9	8 ± 2.2	10 ± 1.5		15 ± 2.1
333.0	9 ± 0.9 ^s	6 ± 1.0 ^s	7 ± 0.7		11 ± 2.5
1000.0	9 ± 0.7 ^s		9 ± 2.1	8 ± 0.9	10 ± 1.8
3333.0	3 ± 0.9 ^s		8 ± 0.3	11 ± 1.2	9 ± 1.8
5000.0				8 ± 1.2	
8000.0				13 ± 3.8	
10000.0			13 ± 2.2 ^s	9 ± 1.9 ^s	10 ± 2.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					175 ± 5.8
Positive Control ³			130 ± 12.0	67 ± 0.9	
Positive Control ⁵	256 ± 93.9	927 ± 86.9			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	21 ± 0.9
3.3	
10.0	
33.0	
100.0	
333.0	
1000.0	23 ± 4.3
3333.0	30 ± 4.9
5000.0	25 ± 3.2
8000.0	25 ± 3.2
10000.0	25 ± 3.5 ^s
Trial Summary	Negative
Positive Control ²	194 ± 13.6
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	22 ± 4.4	22 ± 1.5	38 ± 3.1	27 ± 1.7	38 ± 4.8
3.3		17 ± 0.3			
10.0		20 ± 1.8			
33.0	16 ± 1.2	22 ± 2.3			
100.0	27 ± 1.5	22 ± 0.6	34 ± 4.3		32 ± 2.8
333.0	21 ± 2.0	27 ± 3.1	39 ± 1.5		31 ± 2.3
1000.0	24 ± 0.3 ^s		37 ± 4.4	29 ± 2.6	38 ± 2.2
3333.0	12 ± 1.5 ^s		44 ± 2.3	37 ± 1.3	37 ± 4.6
5000.0				35 ± 3.5	
8000.0				45 ± 1.9	
10000.0			61 ± 10.4 ^s	44 ± 5.2	43 ± 6.2 ^s
Trial Summary	Negative	Negative	Equivocal	Positive	Negative
Positive Control ²					1593 ± 25.4
Positive Control ³			1216 ± 57.5	515 ± 7.5	
Positive Control ⁶	2055 ± 35.2	1424 ± 43.8			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	50 ± 2.3
3.3	
10.0	
33.0	
100.0	
333.0	
1000.0	49 ± 3.8
3333.0	50 ± 3.5
5000.0	45 ± 1.7
8000.0	56 ± 2.5
10000.0	51 ± 4.9
Trial Summary	Negative
Positive Control ²	1249 ± 11.1
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: 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

s: Slight Toxicity

** END OF REPORT **