

Experiment Number: 449184

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Pentaethylenhexamine

CAS Number: 4067-16-7

Date Report Requested: 09/11/2018

Time Report Requested: 03:24:37

NTP Study Number:

449184

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 10% Hamster S9
Vehicle Control ¹	134 ± 3.8	115 ± 9.3	121 ± 6.2	110 ± 2.8	108 ± 3.7
100.0	153 ± 12.3	92 ± 1.9	131 ± 14.2	108 ± 14.2	165 ± 8.2
333.0	202 ± 8.7	154 ± 5.8	156 ± 8.2	171 ± 13.2	201 ± 6.6
1000.0	271 ± 19.1	216 ± 34.9	226 ± 9.3	210 ± 30.5	238 ± 7.5
3333.0	364 ± 14.8	266 ± 20.7	278 ± 7.4	265 ± 14.9	282 ± 27.4
6666.0		144 ± 8.7 ^s		280 ± 10.3	
10000.0	198 ± 39.1 ^s		300 ± 28.9		237 ± 88.4
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²	348 ± 10.4	346 ± 2.0			
Positive Control ³			464 ± 5.2	385 ± 12.3	1067 ± 33.1

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	101 ± 6.6
100.0	130 ± 7.5
333.0	148 ± 4.2
1000.0	173 ± 5.4
3333.0	225 ± 11.9
6666.0	282 ± 9.0
10000.0	
Trial Summary	Positive
Positive Control ²	
Positive Control ³	1123 ± 40.2

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Strain: TA1535

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	25 ± 3.4	8 ± 2.0	9 ± 1.7	9 ± 1.8	7 ± 0.6
100.0	25 ± 4.2	11 ± 1.7	8 ± 1.0	12 ± 1.5	15 ± 1.9
333.0	33 ± 5.8	12 ± 1.7	11 ± 2.2	15 ± 2.8	14 ± 3.2
1000.0	34 ± 3.7	17 ± 2.2	18 ± 2.0	27 ± 1.2	22 ± 2.3
3333.0	32 ± 2.0	23 ± 4.3	20 ± 3.8	26 ± 2.9	23 ± 2.7
6666.0			28 ± 6.1		36 ± 3.8
10000.0	0 ± 0.0 ^s	39 ± 9.0 ^s		34 ± 1.0	
Trial Summary	Negative	Weakly Positive	Weakly Positive	Positive	Positive
Positive Control ²	366 ± 31.1				
Positive Control ⁴		257 ± 29.8	163 ± 6.2	452 ± 6.0	358 ± 9.8

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Test Compound: Pentaethylenhexamine

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	5 ± 1.7	5 ± 1.7	4 ± 1.0	6 ± 1.5	8 ± 2.5
100.0	4 ± 1.7	7 ± 1.0	5 ± 0.9	6 ± 1.5	5 ± 0.3
333.0	5 ± 1.2	6 ± 1.5	10 ± 1.2	9 ± 2.5	9 ± 2.6
1000.0	8 ± 0.9	10 ± 1.7	7 ± 0.7	7 ± 1.2	8 ± 0.7
3333.0	6 ± 1.9	15 ± 3.9	12 ± 1.9	13 ± 2.2	11 ± 1.9
6666.0			8 ± 2.4		7 ± 0.7
10000.0	5 ± 2.6	8 ± 2.3		8 ± 0.6	
Trial Summary	Negative	Equivocal	Negative	Negative	Negative
Positive Control ⁴		160 ± 22.2	169 ± 2.6	422 ± 28.3	320 ± 6.1
Positive Control ⁵	241 ± 23.8				

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Test Compound: Pentaethylenhexamine

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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	15 ± 1.7	17 ± 1.2	20 ± 3.0	18 ± 1.9	25 ± 2.3
100.0	24 ± 0.0	18 ± 0.6	20 ± 2.6	21 ± 3.5	28 ± 0.9
333.0	29 ± 1.5	16 ± 1.9	26 ± 3.8	25 ± 3.8	29 ± 4.0
1000.0	34 ± 2.0	29 ± 7.0	31 ± 3.8	30 ± 1.3	31 ± 1.5
3333.0	36 ± 1.9	33 ± 5.1	59 ± 5.7	39 ± 5.5	47 ± 8.4
6666.0		0 ± 0.0 ^s		45 ± 1.7	
10000.0	31 ± 0.6 ^s		9 ± 8.7 ^s		47 ± 3.8
Trial Summary	Positive	Weakly Positive	Positive	Positive	Weakly Positive
Positive Control ³			411 ± 13.7	230 ± 8.8	1012 ± 54.6
Positive Control ⁶	480 ± 38.2	315 ± 7.8			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	23 ± 3.8
100.0	26 ± 6.2
333.0	26 ± 2.0
1000.0	34 ± 6.6
3333.0	37 ± 5.7
6666.0	49 ± 6.7
10000.0	
Trial Summary	Weakly Positive
Positive Control ³	975 ± 13.7
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: 1.0 ug/Plate Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****