

Experiment Number: A02264

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Hexamethyleneimine

CAS Number: 111-49-9

Date Report Requested: 09/15/2018

Time Report Requested: 11:26:45

NTP Study Number:

A02264

Study Result:

Negative

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Test Compound: Hexamethylenimine

CAS Number: 111-49-9

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	111 ± 3.8	86 ± 3.0	109 ± 9.1	111 ± 9.1	96 ± 0.9
33.0	101 ± 3.7	90 ± 7.2	98 ± 3.8		107 ± 6.9
100.0	100 ± 3.2	96 ± 8.5	103 ± 6.7	114 ± 5.8	102 ± 6.3
333.0	90 ± 3.8	92 ± 2.3	102 ± 5.9	111 ± 1.0	104 ± 5.5
1000.0	115 ± 4.6	100 ± 6.7	102 ± 3.9	109 ± 10.4	87 ± 3.0
1666.0	113 ± 9.7 ^s	38 ± 14.3 ^s			
3333.0			43 ± 6.4 ^s	78 ± 6.1 ^s	32 ± 4.7 ^s
6666.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					621 ± 49.0
Positive Control ³			549 ± 22.0		
Positive Control ⁴				525 ± 17.2	
Positive Control ⁵	878 ± 50.0	895 ± 21.9			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	99 ± 8.4
33.0	
100.0	93 ± 5.5
333.0	103 ± 3.1
1000.0	109 ± 0.9
1666.0	
3333.0	66 ± 13.4 ^s
6666.0	Toxic
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1439 ± 51.9
Positive Control ⁴	
Positive Control ⁵	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	17 ± 1.2	8 ± 1.3	7 ± 0.6	15 ± 1.9	7 ± 1.5
33.0	17 ± 0.3	8 ± 1.2	8 ± 0.7	15 ± 1.2	7 ± 0.3
100.0	20 ± 0.0	8 ± 0.7	8 ± 1.5	17 ± 2.8	8 ± 2.0
333.0	16 ± 0.9	9 ± 0.7	8 ± 1.3	11 ± 2.3	7 ± 1.0
1000.0	14 ± 0.9	10 ± 1.7	7 ± 0.9	10 ± 1.2	8 ± 1.5
1666.0	5 ± 0.9 ^s	5 ± 0.9 ^s			
3333.0			3 ± 1.0 ^s	16 ± 3.2 ^s	3 ± 0.7 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					138 ± 2.3
Positive Control ⁵	835 ± 7.5	846 ± 20.2			
Positive Control ⁴			100 ± 18.9		
Positive Control ⁶				127 ± 2.6	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.5
33.0	13 ± 1.5
100.0	13 ± 2.3
333.0	12 ± 1.3
1000.0	9 ± 0.9
1666.0	
3333.0	15 ± 2.4 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁵	
Positive Control ⁴	236 ± 11.3
Positive Control ⁶	

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	139 ± 20.3	107 ± 1.8	119 ± 2.7	155 ± 4.6	120 ± 7.6
33.0	127 ± 5.2	100 ± 7.5	112 ± 4.5	183 ± 10.0	99 ± 8.9
100.0	111 ± 1.2	105 ± 0.3	111 ± 3.2	191 ± 4.7	118 ± 2.3
333.0	128 ± 2.7	103 ± 3.2	119 ± 4.7	179 ± 11.0	119 ± 11.5
1000.0	120 ± 2.2	96 ± 7.2	122 ± 9.8	182 ± 6.7	115 ± 2.0
1666.0	55 ± 19.1 ^s	45 ± 6.4 ^s			
3333.0			63 ± 6.7 ^s	150 ± 43.9 ^s	54 ± 16.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					514 ± 16.1
Positive Control ³			470 ± 25.4		
Positive Control ⁴				390 ± 12.7	
Positive Control ⁷	541 ± 16.6	502 ± 48.2			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	144 ± 4.6
33.0	149 ± 3.2
100.0	169 ± 2.3
333.0	157 ± 5.6
1000.0	178 ± 3.1
1666.0	
3333.0	86 ± 28.9 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	455 ± 8.1
Positive Control ⁴	
Positive Control ⁷	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	16 ± 3.2	20 ± 1.0	17 ± 2.3	17 ± 5.0	18 ± 1.5
33.0	17 ± 1.5	16 ± 3.3	23 ± 1.5		21 ± 1.7
100.0	15 ± 1.2	16 ± 0.9	22 ± 4.2	18 ± 3.2	24 ± 3.2
333.0	23 ± 4.0	15 ± 2.3	22 ± 1.9	16 ± 3.3	21 ± 2.1
1000.0	17 ± 1.0	17 ± 0.6	24 ± 0.9	23 ± 3.0	17 ± 2.0
1666.0	17 ± 2.2 ^s	8 ± 1.2 ^s			
3333.0			9 ± 3.0 ^s	15 ± 1.9 ^s	12 ± 4.2 ^s
6666.0				Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					674 ± 9.9
Positive Control ³			358 ± 35.4		
Positive Control ⁸	498 ± 12.9	378 ± 11.1			
Positive Control ⁴				391 ± 28.6	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	21 ± 2.3
33.0	
100.0	19 ± 3.2
333.0	18 ± 3.6
1000.0	19 ± 0.7
1666.0	
3333.0	13 ± 1.5 ^s
6666.0	Toxic
Trial Summary	Negative
Positive Control ²	
Positive Control ³	469 ± 13.1
Positive Control ⁸	
Positive Control ⁴	

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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: 1.0 ug/Plate 2-Aminoanthracene
- 3: 2.0 ug/Plate 2-Aminoanthracene
- 4: 5.0 ug/Plate 2-Aminoanthracene
- 5: 5.0 ug/Plate Sodium Azide
- 6: 10.0 ug/Plate 2-Aminoanthracene
- 7: 50.0 ug/Plate 9-Aminoacridine
- 8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine
- s: Slight Toxicity

** END OF REPORT **