

Experiment Number: A44732

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Polyethylene AS

CAS Number: 9002-88-4

Date Report Requested: 09/17/2018

Time Report Requested: 01:02:15

NTP Study Number:

A44732

Study Result:

Negative

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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	132 ± 5.5	110 ± 5.9	120 ± 2.3	138 ± 5.2	108 ± 10.3
100.0	131 ± 4.2	115 ± 3.8	121 ± 2.5	139 ± 6.7	112 ± 5.0
333.0	116 ± 12.1	118 ± 4.6	119 ± 7.5	131 ± 1.5	113 ± 0.9
1000.0	112 ± 9.6	111 ± 2.8	123 ± 5.9	126 ± 6.2	104 ± 8.5
3333.0	118 ± 9.6	106 ± 3.3	112 ± 2.7	128 ± 8.2	104 ± 8.2
10000.0	120 ± 3.6	118 ± 7.2	98 ± 29.2	133 ± 8.7	112 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					527 ± 21.8
Positive Control ³			435 ± 19.3		
Positive Control ⁴	1055 ± 35.1	930 ± 15.9			
Positive Control ⁵				855 ± 16.1	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	134 ± 3.2
100.0	131 ± 6.1
333.0	131 ± 8.0
1000.0	122 ± 16.9
3333.0	127 ± 2.0
10000.0	134 ± 3.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	613 ± 9.4
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	12 ± 0.3	10 ± 1.7	18 ± 0.6	13 ± 1.8	11 ± 0.9
100.0	14 ± 0.9	9 ± 0.9	15 ± 1.5	11 ± 1.0	15 ± 1.3
333.0	12 ± 1.5	8 ± 0.9	14 ± 0.6	15 ± 2.1	10 ± 1.8
1000.0	11 ± 1.5	13 ± 0.9	16 ± 0.9	12 ± 1.7	11 ± 1.3
3333.0	10 ± 1.2	8 ± 0.5	16 ± 1.7	13 ± 2.2	12 ± 3.5
10000.0	11 ± 0.3	7 ± 0.3	12 ± 0.6	11 ± 0.9	12 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					187 ± 5.8
Positive Control ⁴	887 ± 34.4	969 ± 20.7			
Positive Control ⁵			145 ± 6.4		
Positive Control ⁶				141 ± 3.8	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 0.9
100.0	10 ± 1.2
333.0	14 ± 0.7
1000.0	14 ± 1.2
3333.0	13 ± 2.2
10000.0	12 ± 3.0
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	290 ± 10.3
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	148 ± 6.1	162 ± 7.4	171 ± 3.4	160 ± 3.2	168 ± 4.6
0.0					0 ± 0.0
100.0	145 ± 4.3	165 ± 3.6	165 ± 8.1	141 ± 8.7	172 ± 1.8
333.0	147 ± 5.5	159 ± 6.0	164 ± 7.7	144 ± 7.3	168 ± 7.5
1000.0	150 ± 8.6	160 ± 6.5	173 ± 2.7	159 ± 5.3	173 ± 2.7
3333.0	150 ± 6.4	161 ± 3.8	177 ± 8.7	144 ± 7.9	166 ± 5.3
10000.0	144 ± 3.3	147 ± 4.0	168 ± 6.9	144 ± 8.6	187 ± 10.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					386 ± 8.6
Positive Control ³			411 ± 19.5		
Positive Control ⁵				657 ± 18.3	
Positive Control ⁷	685 ± 19.0	338 ± 17.0			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	156 ± 4.3
0.0	
100.0	141 ± 4.3
333.0	142 ± 0.9
1000.0	157 ± 0.6
3333.0	141 ± 10.1
10000.0	155 ± 6.1
Trial Summary	Negative
Positive Control ²	
Positive Control ³	740 ± 19.9
Positive Control ⁵	
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	19 ± 1.2	15 ± 1.5	16 ± 2.2	16 ± 0.9	19 ± 1.2
0.0				0 ± 0.0	
100.0	17 ± 1.0	15 ± 0.3	18 ± 1.3	13 ± 1.9	18 ± 3.0
333.0	17 ± 2.3	15 ± 2.1	19 ± 2.4	17 ± 1.2	22 ± 2.4
1000.0	15 ± 2.2	16 ± 1.5	16 ± 1.0	17 ± 0.9	19 ± 2.9
3333.0	14 ± 2.7	16 ± 1.5	19 ± 1.0	15 ± 0.7	18 ± 0.9
10000.0	15 ± 2.9	14 ± 1.8	19 ± 3.8	18 ± 1.5	19 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					440 ± 29.0
Positive Control ³			349 ± 10.4		
Positive Control ⁸	303 ± 5.0	373 ± 15.3			
Positive Control ⁵				474 ± 0.6	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	22 ± 0.9
0.0	
100.0	21 ± 0.3
333.0	18 ± 0.7
1000.0	15 ± 0.6
3333.0	15 ± 1.7
10000.0	19 ± 0.3
Trial Summary	Negative
Positive Control ²	
Positive Control ³	565 ± 20.2
Positive Control ⁸	
Positive Control ⁵	

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

** END OF REPORT **