

Experiment Number: A60602

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Polystyrene high mol. wt.

CAS Number: EMTDP-91

Date Report Requested: 09/17/2018

Time Report Requested: 08:59:58

NTP Study Number:

A60602

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	146 ± 6.2	137 ± 6.2	138 ± 5.2	166 ± 7.5	146 ± 4.0
0.0	0 ± 0.0				
100.0	151 ± 12.2 ^P	143 ± 3.6 ^P	145 ± 10.4 ^P	161 ± 2.8 ^P	149 ± 1.9 ^P
333.0	165 ± 7.9 ^P	132 ± 6.2 ^P	152 ± 1.5 ^P	161 ± 4.4 ^P	129 ± 3.3 ^P
1000.0	137 ± 11.2 ^P	136 ± 4.4 ^P	140 ± 2.8 ^P	149 ± 2.6 ^P	134 ± 4.9 ^P
3333.0	134 ± 10.4 ^P	146 ± 8.8 ^P	140 ± 2.1 ^P	163 ± 4.3 ^P	149 ± 1.5 ^P
10000.0	105 ± 4.5 ^P	113 ± 3.3 ^P	114 ± 7.3 ^X	110 ± 6.7 ^X	109 ± 5.8 ^X
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					472 ± 6.7
Positive Control ³			379 ± 8.1		
Positive Control ⁴	1055 ± 35.1	910 ± 17.0			
Positive Control ⁵				855 ± 16.1	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹ 0.0	117 ± 2.1
100.0	144 ± 3.9 ^P
333.0	144 ± 5.5 ^P
1000.0	138 ± 16.2 ^P
3333.0	135 ± 9.6 ^P
10000.0	91 ± 6.1 ^P
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	11 ± 1.2	9 ± 0.6	9 ± 1.2	14 ± 1.5	10 ± 0.9
100.0	11 ± 0.7 ^p	11 ± 0.7 ^p	9 ± 0.9 ^p	16 ± 1.9 ^p	9 ± 0.3 ^p
333.0	11 ± 0.3 ^p	11 ± 1.7 ^p	8 ± 0.3 ^p	17 ± 0.9 ^p	9 ± 0.6 ^p
1000.0	9 ± 0.3 ^p	8 ± 0.6 ^p	10 ± 0.9 ^p	14 ± 2.3 ^p	7 ± 1.3 ^p
3333.0	10 ± 1.9 ^p	9 ± 0.3 ^p	11 ± 0.7 ^p	19 ± 2.5 ^p	10 ± 1.5 ^p
10000.0	5 ± 0.9 ^x	5 ± 0.7 ^x	8 ± 0.6 ^p	12 ± 1.9 ^p	9 ± 0.3 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					168 ± 2.3
Positive Control ⁴	872 ± 11.4	865 ± 17.0			
Positive Control ⁵			139 ± 7.2		
Positive Control ⁶				107 ± 7.1	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	17 ± 1.5
100.0	14 ± 0.7 ^P
333.0	17 ± 0.3 ^P
1000.0	15 ± 1.0 ^P
3333.0	15 ± 1.2 ^P
10000.0	12 ± 0.7 ^P
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	141 ± 10.2
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	163 ± 7.4	157 ± 5.9	147 ± 11.8	166 ± 10.1	175 ± 4.6
100.0	143 ± 10.2 ^p	136 ± 5.6 ^p	148 ± 13.9 ^p	154 ± 8.0 ^p	167 ± 7.0 ^p
333.0	151 ± 5.3 ^p	140 ± 8.4 ^p	146 ± 5.6 ^p	158 ± 7.0 ^p	167 ± 7.1 ^p
1000.0	182 ± 7.4 ^p	154 ± 4.3 ^p	155 ± 6.7 ^p	156 ± 6.4 ^p	149 ± 4.7 ^p
3333.0	147 ± 6.7 ^p	140 ± 13.6 ^p	138 ± 7.8 ^p	158 ± 17.3 ^p	168 ± 2.1 ^p
10000.0	145 ± 4.0 ^p	137 ± 16.5 ^p	116 ± 6.0 ^x	131 ± 11.5 ^p	136 ± 1.2 ^p
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					426 ± 12.8
Positive Control ³			408 ± 16.8		
Positive Control ⁵				427 ± 13.2	
Positive Control ⁷	330 ± 8.7	348 ± 12.7			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	161 ± 4.5
100.0	175 ± 10.1 ^P
333.0	143 ± 3.7 ^P
1000.0	148 ± 5.9 ^P
3333.0	150 ± 6.2 ^P
10000.0	121 ± 3.8 ^X
Trial Summary	Negative
Positive Control ²	
Positive Control ³	486 ± 10.0
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	15 ± 1.0	19 ± 1.8	25 ± 2.8	18 ± 1.0	21 ± 1.5
100.0	13 ± 0.7 ^P	24 ± 1.8 ^P	21 ± 3.0 ^P	16 ± 2.0 ^P	17 ± 0.9 ^P
333.0	18 ± 1.7 ^P	16 ± 2.6 ^P	20 ± 0.7 ^P	16 ± 0.0 ^P	21 ± 0.6 ^P
1000.0	12 ± 0.9 ^P	18 ± 1.5 ^P	25 ± 0.6 ^P	12 ± 0.3 ^P	26 ± 0.6 ^P
3333.0	11 ± 0.7 ^P	21 ± 2.1 ^P	22 ± 2.0 ^P	13 ± 0.7 ^P	22 ± 0.9 ^P
10000.0	5 ± 1.2 ^X	9 ± 0.6 ^X	18 ± 0.6 ^P	10 ± 0.7 ^X	9 ± 1.8 ^X
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					254 ± 21.1
Positive Control ³			253 ± 7.2		
Positive Control ⁸	303 ± 5.0	440 ± 19.2			
Positive Control ⁵				474 ± 0.6	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	16 ± 1.8
100.0	23 ± 2.2 ^p
333.0	22 ± 3.0 ^p
1000.0	19 ± 2.0 ^p
3333.0	14 ± 2.2 ^p
10000.0	7 ± 2.8 ^x
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
- p: Precipitate
- x: Slight Toxicity and Precipitate

** END OF REPORT **