

Experiment Number: 749805

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Ethyl acrylate

CAS Number: 140-88-5

Date Report Requested: 09/17/2018

Time Report Requested: 10:56:18

NTP Study Number:

749805

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	101 ± 8.1	81 ± 0.7	80 ± 6.1	121 ± 5.4	95 ± 10.3
33.0				117 ± 3.2	
100.0	101 ± 2.1	86 ± 1.5	81 ± 3.8	125 ± 4.5	84 ± 2.2
333.0	90 ± 4.4	78 ± 3.8	75 ± 4.2	120 ± 2.0	82 ± 4.4
1000.0	83 ± 8.4	78 ± 1.7	60 ± 4.9	112 ± 4.1	68 ± 3.6
3333.0	75 ± 4.3	77 ± 3.3	29 ± 5.0	61 ± 8.4	4 ± 1.0
5000.0	48 ± 2.7 ^s				
6666.0		Toxic	Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					635 ± 7.0
Positive Control ³			969 ± 21.7		
Positive Control ⁴				897 ± 10.8	
Positive Control ⁵	1175 ± 29.6	686 ± 29.4			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	98 ± 12.9
33.0	94 ± 0.7
100.0	101 ± 2.0
333.0	104 ± 0.7
1000.0	92 ± 6.2
3333.0	49 ± 4.1
5000.0	
6666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	1235 ± 26.9
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	20 ± 0.7	31 ± 4.0	15 ± 2.1	14 ± 2.7	15 ± 3.2
33.0				12 ± 2.7	
100.0	23 ± 0.9	25 ± 1.5	16 ± 2.1	14 ± 0.0	13 ± 2.5
333.0	21 ± 2.7	30 ± 2.5	11 ± 1.0	12 ± 2.1	10 ± 2.1
1000.0	18 ± 0.7	27 ± 2.9	11 ± 1.3	8 ± 3.1	14 ± 1.7
3333.0	12 ± 1.9	23 ± 2.0	9 ± 1.3	7 ± 1.2	2 ± 0.9
5000.0	6 ± 1.3 ^s				
6666.0		Toxic	Toxic		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					82 ± 1.5
Positive Control ³			116 ± 4.4		
Positive Control ⁴				150 ± 9.5	
Positive Control ⁵	815 ± 2.2	1254 ± 27.9			

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	11 ± 0.7
33.0	12 ± 3.2
100.0	9 ± 0.3
333.0	10 ± 2.5
1000.0	10 ± 4.0
3333.0	2 ± 0.3
5000.0	
6666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	139 ± 4.7
Positive Control ⁵	

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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	63 ± 1.2	104 ± 3.9	147 ± 3.2	152 ± 5.3	144 ± 4.4
33.0				165 ± 5.0	
100.0	76 ± 7.8	116 ± 1.2	130 ± 6.6	191 ± 11.8	130 ± 11.7
333.0	89 ± 3.3	113 ± 5.4	149 ± 3.3	162 ± 8.8	138 ± 8.3
1000.0	86 ± 4.4	105 ± 6.2	129 ± 10.2	136 ± 6.0	141 ± 3.9
3333.0	85 ± 6.8	104 ± 2.6	146 ± 3.3	33 ± 3.4	5 ± 0.9
5000.0	38 ± 2.6 ^s				
6666.0		Toxic	75 ± 12.8 ^s		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					675 ± 17.9
Positive Control ³			972 ± 21.2		
Positive Control ⁴				548 ± 15.9	
Positive Control ⁶	627 ± 46.1	717 ± 120.9			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	135 ± 5.0
33.0	127 ± 2.7
100.0	144 ± 9.6
333.0	135 ± 5.2
1000.0	121 ± 7.9
3333.0	12 ± 4.8
5000.0	
6666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	719 ± 37.3
Positive Control ⁶	

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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	18 ± 2.7	22 ± 1.0	32 ± 2.6	27 ± 2.5	35 ± 1.2
33.0				29 ± 6.9	
100.0	19 ± 2.3	19 ± 3.1	32 ± 2.0	26 ± 1.7	33 ± 4.6
333.0	14 ± 2.3	26 ± 4.1	28 ± 0.9	27 ± 1.2	29 ± 3.2
1000.0	18 ± 2.0	20 ± 1.5	34 ± 1.8	27 ± 3.1	31 ± 2.7
3333.0	13 ± 0.9	22 ± 4.8	22 ± 1.8	16 ± 2.1	21 ± 0.9
5000.0	12 ± 0.6 ^s				
6666.0		Toxic	19 ± 5.0 ^s		Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					753 ± 20.1
Positive Control ³			1124 ± 31.5		
Positive Control ⁴				519 ± 9.4	
Positive Control ⁷	1672 ± 129.0	1771 ± 35.8			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	27 ± 5.0
33.0	22 ± 0.7
100.0	29 ± 1.0
333.0	28 ± 2.5
1000.0	25 ± 4.1
3333.0	12 ± 2.0
5000.0	
6666.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	882 ± 44.8
Positive Control ⁷	

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate Sodium Azide

6: 4.0 ug/Plate 9-Aminoacridine

7: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **