

Experiment Number: 926550

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-Ethyl-2-hexenal

CAS Number: 645-62-5

Date Report Requested: 09/17/2018

Time Report Requested: 07:33:19

NTP Study Number:

926550

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	142 ± 2.2	130 ± 10.0	118 ± 6.6	162 ± 1.2	128 ± 9.8
3.0		135 ± 12.1			
10.0	114 ± 7.8	121 ± 3.0	124 ± 13.3	139 ± 12.7	145 ± 8.5
33.0	105 ± 16.2	123 ± 3.1	127 ± 6.9	129 ± 7.0	135 ± 6.0
100.0	123 ± 7.0	133 ± 4.4	134 ± 13.2	146 ± 4.3	135 ± 3.2
166.0		124 ± 7.0			
333.0	87 ± 14.4 ^s		108 ± 7.2	126 ± 11.0	124 ± 7.1
666.0	Toxic		115 ± 12.2	126 ± 6.6	111 ± 14.1
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					984 ± 4.1
Positive Control ³			724 ± 29.9	304 ± 1.5	
Positive Control ⁴	383 ± 9.3	547 ± 8.0			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	151 ± 12.0
3.0	
10.0	151 ± 8.7
33.0	144 ± 14.0
100.0	144 ± 3.3
166.0	
333.0	156 ± 4.5
666.0	140 ± 5.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	766 ± 29.1
Positive Control ⁴	

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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 ± 2.6	28 ± 1.2	10 ± 1.8	13 ± 3.5	10 ± 2.6
3.0		27 ± 1.9			
10.0	16 ± 1.5	25 ± 0.9	12 ± 1.5	13 ± 1.3	10 ± 1.2
33.0	19 ± 1.0	26 ± 2.6	12 ± 1.7	13 ± 3.4	9 ± 1.8
100.0	14 ± 2.9	24 ± 3.4	9 ± 2.0	10 ± 3.1	7 ± 2.8
166.0		27 ± 0.7			
333.0	10 ± 2.4 ^s		7 ± 2.5	15 ± 3.7	9 ± 2.0
666.0	2 ± 1.5 ^s		7 ± 1.0	11 ± 2.7	4 ± 1.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					289 ± 3.8
Positive Control ⁴	396 ± 11.5	417 ± 12.9			
Positive Control ⁵			230 ± 15.9	92 ± 5.8	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 0.6
3.0	
10.0	13 ± 2.0
33.0	9 ± 3.2
100.0	10 ± 1.9
166.0	
333.0	11 ± 4.0
666.0	9 ± 2.0 ^s
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	418 ± 18.2

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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	151 ± 10.7	174 ± 12.0	178 ± 3.0	185 ± 22.0	147 ± 5.8
3.0		178 ± 7.1			
10.0	148 ± 12.6	186 ± 6.9	197 ± 3.9	225 ± 16.0	190 ± 6.2
33.0	165 ± 5.9	184 ± 1.2	191 ± 6.2	193 ± 4.8	193 ± 1.9
100.0	165 ± 8.4	189 ± 0.6	198 ± 7.1	194 ± 17.4	171 ± 19.3
166.0		174 ± 10.0			
333.0	104 ± 16.0 ^s		172 ± 5.2	183 ± 19.8	151 ± 12.1
666.0	Toxic		140 ± 7.5	171 ± 0.6	140 ± 7.1 ^s
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					694 ± 73.6
Positive Control ³			449 ± 9.2		
Positive Control ⁵				405 ± 13.9	
Positive Control ⁶	672 ± 9.3	962 ± 23.2			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	180 ± 13.7
3.0	
10.0	219 ± 7.4
33.0	196 ± 5.9
100.0	225 ± 8.7
166.0	
333.0	207 ± 5.9
666.0	171 ± 20.5 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	524 ± 14.2
Positive Control ⁵	
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	28 ± 1.7	25 ± 2.5	40 ± 4.3	40 ± 1.5	47 ± 1.7
3.0		26 ± 1.2			
10.0	27 ± 0.9	28 ± 4.3	39 ± 2.4	32 ± 3.8	38 ± 1.7
33.0	24 ± 2.0	24 ± 5.0	35 ± 2.0	33 ± 4.4	40 ± 1.7
100.0	33 ± 5.9	27 ± 0.6	38 ± 2.4	35 ± 6.4	42 ± 0.3
166.0		27 ± 3.5			
333.0	8 ± 4.9 ^s		26 ± 4.1	32 ± 5.6	25 ± 1.8
666.0	Toxic		23 ± 2.7	26 ± 2.9	23 ± 3.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					779 ± 49.3
Positive Control ³			464 ± 16.8		
Positive Control ⁷	837 ± 31.2	1014 ± 11.7			
Positive Control ⁵				111 ± 0.7	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	40 ± 2.0
3.0	
10.0	41 ± 0.9
33.0	39 ± 1.2
100.0	41 ± 2.2
166.0	
333.0	33 ± 1.5
666.0	34 ± 3.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	401 ± 15.1
Positive Control ⁷	
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: Dimethyl Sulfoxide

2: 0.5 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate 2-Aminoanthracene

4: 1.0 ug/Plate Sodium Azide

5: 2.5 ug/Plate 2-Aminoanthracene

6: 50.0 ug/Plate 9-Aminoacridine

7: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****