

Experiment Number: A91243

Test Type: **Genetic Toxicology - Bacterial
Mutagenicity**

G06: Ames Summary Data

Test Compound: **Ethyl vinyl ketone**

CAS Number: **1629-58-9**

Date Report Requested: **09/15/2018**

Time Report Requested: **12:00:26**

NTP Study Number:

A91243

Study Result:

Positive

Experiment Number: A91243

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Mutagenicity

G06: Ames Summary Data

Test Compound: Ethyl vinyl ketone
CAS Number: 1629-58-9

Date Report Requested: 09/15/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	108 ± 5.2	104 ± 0.9	129 ± 0.9	131 ± 5.3	66 ± 33.2
1.0	105 ± 1.3				
3.0	104 ± 2.6		117 ± 7.5		100 ± 5.6
10.0	99 ± 7.0	117 ± 5.2	135 ± 3.8		105 ± 6.2
33.0	129 ± 2.9 ^x	126 ± 1.9	115 ± 3.4	135 ± 2.6	110 ± 9.5
66.0		198 ± 2.1		157 ± 7.0	
100.0	154 ± 6.9 ^x	210 ± 5.5	186 ± 9.7	163 ± 8.1	145 ± 6.6
166.0		28 ± 14.7 ^s		229 ± 2.3	
333.0			554 ± 31.7	688 ± 38.9	861 ± 6.9
Trial Summary	Equivocal	Positive	Positive	Positive	Positive
Positive Control ²					701 ± 15.9
Positive Control ³	853 ± 10.6	1009 ± 32.4			
Positive Control ⁴			794 ± 33.5	1148 ± 42.7	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	113 ± 2.1
1.0	
3.0	
10.0	
33.0	115 ± 0.9
66.0	121 ± 11.1
100.0	151 ± 11.5
166.0	186 ± 5.9
333.0	959 ± 67.2
Trial Summary	Positive
Positive Control ²	625 ± 6.7
Positive Control ³	
Positive Control ⁴	

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Strain: TA98

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	20 ± 2.3	18 ± 1.5	14 ± 0.9
1.0	19 ± 0.7		
3.0	16 ± 4.6	14 ± 0.9	19 ± 2.8
10.0	18 ± 1.2	22 ± 5.8	18 ± 1.5
33.0	15 ± 1.0	21 ± 3.2	16 ± 2.3
100.0	2 ± 0.6 ⁵	23 ± 5.7	21 ± 2.0
333.0		22 ± 5.0	17 ± 3.9
Trial Summary	Negative	Negative	Negative
Positive Control ²			485 ± 24.6
Positive Control ⁵	300 ± 16.0		
Positive Control ⁴		518 ± 13.7	

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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: 2.0 ug/Plate 2-Aminoanthracene

3: 5.0 ug/Plate Sodium Azide

4: 5.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

x: Slight Toxicity and Precipitate

** END OF REPORT **