

Experiment Number: 890265

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Valeronitrile

CAS Number: 110-59-8

Date Report Requested: 09/16/2018

Time Report Requested: 20:32:30

NTP Study Number:

890265

Study Result:

Equivocal

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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	75 ± 2.3	136 ± 6.4	83 ± 6.7	170 ± 8.3	92 ± 1.3
33.0	83 ± 3.2	118 ± 3.7	83 ± 1.7	164 ± 6.8	69 ± 2.5
100.0	84 ± 2.0	129 ± 6.1	93 ± 3.6	175 ± 10.2	73 ± 6.1
333.0	74 ± 2.3	120 ± 2.8	97 ± 7.8	178 ± 9.8	84 ± 7.0
1000.0	85 ± 7.6	119 ± 6.7	97 ± 5.2	132 ± 4.0	91 ± 3.5
3333.0	61 ± 2.4 ^s	64 ± 5.0 ^s	96 ± 14.3 ^s	99 ± 6.1 ^s	91 ± 8.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					693 ± 17.1
Positive Control ³			1340 ± 31.9		
Positive Control ⁴				409 ± 10.8	
Positive Control ⁵	1039 ± 57.1	1219 ± 85.1			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	94 ± 8.7	147 ± 1.5
33.0	89 ± 9.7	152 ± 17.8
100.0	76 ± 2.9	157 ± 6.0
333.0	62 ± 4.3	149 ± 5.3
1000.0	66 ± 5.4	174 ± 6.9
3333.0	66 ± 9.2 ^s	148 ± 9.8 ^s
Trial Summary	Negative	Negative
Positive Control ²		
Positive Control ³		
Positive Control ⁴	946 ± 64.3	812 ± 25.1
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	19 ± 0.9	24 ± 2.5	10 ± 3.2	12 ± 2.0	11 ± 0.3
33.0	18 ± 0.9	25 ± 2.0	11 ± 0.9	13 ± 1.0	12 ± 1.7
100.0	18 ± 1.5	29 ± 4.4	11 ± 1.8	10 ± 0.9	10 ± 0.9
333.0	16 ± 1.9	29 ± 1.9	12 ± 1.9	15 ± 2.5	13 ± 0.0
1000.0	16 ± 2.0 ^s	23 ± 3.2 ^s	12 ± 2.3 ^s	12 ± 1.5	11 ± 2.5
3333.0	8 ± 1.2 ^s	18 ± 2.3 ^s	10 ± 1.2 ^s	13 ± 0.9 ^s	9 ± 2.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					55 ± 5.9
Positive Control ³			65 ± 6.9		
Positive Control ⁴				125 ± 4.9	
Positive Control ⁵	771 ± 14.6	987 ± 23.7			

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	14 ± 1.2	11 ± 1.7
33.0	12 ± 3.8	12 ± 1.2
100.0	11 ± 1.7	13 ± 3.5
333.0	14 ± 4.6	17 ± 1.2
1000.0	17 ± 3.8 ^s	13 ± 2.6
3333.0	10 ± 0.6 ^s	12 ± 2.7 ^s
Trial Summary	Negative	Negative
Positive Control ²		
Positive Control ³		
Positive Control ⁴	243 ± 4.6	91 ± 1.2
Positive Control ⁵		

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9
Vehicle Control ¹	81 ± 4.7	45 ± 4.0	114 ± 6.1	125 ± 4.4	151 ± 6.6
33.0	86 ± 5.9	58 ± 3.7	94 ± 3.0	118 ± 8.7	157 ± 6.2
100.0	80 ± 8.1	63 ± 1.2	93 ± 4.6	106 ± 11.3	175 ± 8.7
333.0	79 ± 6.9	43 ± 4.3	87 ± 4.6	118 ± 4.6	218 ± 2.4
1000.0	84 ± 1.2	26 ± 14.7	77 ± 4.9	103 ± 2.0 ^s	195 ± 6.7
3333.0	53 ± 3.6 ^s	48 ± 2.6 ^s	60 ± 16.9 ^s	106 ± 5.0 ^s	186 ± 4.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					
Positive Control ³				712 ± 24.0	
Positive Control ⁴					467 ± 6.4
Positive Control ⁶	833 ± 32.4	858 ± 137.7	340 ± 25.6		

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Strain: TA97

Dose (ug/Plate)	With 30% Rat S9	With 10% Hamster S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	193 ± 2.2	110 ± 3.2	158 ± 6.7	197 ± 6.6
33.0	198 ± 6.9	102 ± 5.0	170 ± 7.2	193 ± 8.2
100.0	205 ± 2.0	107 ± 6.6	182 ± 7.8	198 ± 8.1
333.0	206 ± 8.7	110 ± 6.2	192 ± 4.6	216 ± 5.3
1000.0	234 ± 7.8	102 ± 11.2 ^s	211 ± 11.2	243 ± 7.2
3333.0	212 ± 11.3 ^s	96 ± 7.9 ^s	193 ± 12.9 ^s	194 ± 9.5 ^s
Trial Summary	Equivocal	Negative	Equivocal	Equivocal
Positive Control ²		374 ± 17.5		
Positive Control ³				
Positive Control ⁴	365 ± 5.8		529 ± 20.2	718 ± 6.5
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	13 ± 3.5	15 ± 2.3	29 ± 1.5	33 ± 0.6	18 ± 1.2
33.0	14 ± 0.6	17 ± 1.9	25 ± 2.5	27 ± 6.1	28 ± 0.3
100.0	16 ± 1.3	19 ± 2.0	28 ± 5.2	25 ± 3.8	22 ± 2.9
333.0	15 ± 2.4	22 ± 3.2	18 ± 3.5	35 ± 0.7	25 ± 2.0
1000.0	14 ± 1.3	18 ± 1.5 ^s	21 ± 1.3	21 ± 2.5	22 ± 0.9
3333.0	16 ± 1.5 ^s	21 ± 1.5 ^s	21 ± 4.6	25 ± 1.5 ^s	23 ± 4.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					450 ± 26.3
Positive Control ³			1007 ± 54.1		
Positive Control ⁴				303 ± 11.2	
Positive Control ⁷	1386 ± 27.3	1876 ± 21.4			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	26 ± 2.7	29 ± 3.2
33.0	30 ± 1.2	33 ± 1.5
100.0	30 ± 4.0	36 ± 3.5
333.0	28 ± 0.0	28 ± 3.5
1000.0	22 ± 1.9	26 ± 0.6
3333.0	22 ± 0.6 ^s	26 ± 1.7
Trial Summary	Negative	Negative
Positive Control ²		
Positive Control ³		
Positive Control ⁴	363 ± 10.8	349 ± 28.3
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 **