

Experiment Number: 076654

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 3-((Ethylhexyl)oxy)propionitrile

CAS Number: 10213-75-9

Date Report Requested: 09/11/2018

Time Report Requested: 00:41:39

NTP Study Number:

076654

Study Result:

Negative

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Test Compound: 3-((Ethylhexyl)oxy)propionitrile
CAS Number: 10213-75-9

Date Report Requested: 09/11/2018

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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	114 ± 2.1	122 ± 4.9	112 ± 10.2	145 ± 15.9	131 ± 7.8
1.0		113 ± 1.7			
3.0	128 ± 21.0	110 ± 1.7		153 ± 10.1	
10.0	112 ± 12.7	103 ± 1.2	109 ± 5.9	149 ± 5.0	131 ± 7.5
33.0	97 ± 11.5	111 ± 7.8	122 ± 19.9	152 ± 6.7	131 ± 7.3
100.0	78 ± 11.9 ^s	79 ± 6.4 ^s	132 ± 3.8	144 ± 9.7	117 ± 5.2
333.0	0 ± 0.0 ^s		122 ± 11.0	128 ± 7.2	112 ± 15.0
1000.0			19 ± 9.5 ^s		73 ± 26.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					826 ± 66.0
Positive Control ³			447 ± 27.7	321 ± 6.6	
Positive Control ⁴	436 ± 5.4	375 ± 9.7			

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	129 ± 0.9
1.0	
3.0	127 ± 6.9
10.0	117 ± 12.6
33.0	124 ± 7.0
100.0	98 ± 5.5
333.0	105 ± 10.7
1000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	836 ± 63.0
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	35 ± 3.3	20 ± 0.6	16 ± 1.0	13 ± 1.9	16 ± 1.5
1.0		24 ± 0.9			
3.0	29 ± 3.6	26 ± 1.9		13 ± 0.0	
10.0	27 ± 1.5	26 ± 0.0	13 ± 3.2	14 ± 0.6	15 ± 1.5
33.0	25 ± 4.0	27 ± 0.7	11 ± 2.5	11 ± 2.7	16 ± 0.7
100.0	22 ± 0.7 ^s	12 ± 2.4 ^s	12 ± 0.9	13 ± 3.5	20 ± 2.6
333.0	0 ± 0.0 ^s		10 ± 1.2	11 ± 1.3	12 ± 1.5
1000.0			4 ± 0.9 ^s		3 ± 0.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					214 ± 11.7
Positive Control ⁴	465 ± 27.6	488 ± 18.5			
Positive Control ⁵			132 ± 8.5	114 ± 2.1	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 0.3
1.0	
3.0	11 ± 2.5
10.0	11 ± 2.0
33.0	14 ± 2.8
100.0	10 ± 1.5
333.0	12 ± 2.4
1000.0	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	368 ± 7.9

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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	153 ± 7.4	197 ± 3.0	166 ± 6.9	205 ± 2.8	172 ± 8.6
1.0		184 ± 0.7			
3.0	101 ± 50.7	203 ± 2.1		187 ± 13.6	
10.0	158 ± 8.0	189 ± 11.3	168 ± 17.7	189 ± 9.7	166 ± 12.5
33.0	170 ± 2.6	192 ± 4.7	168 ± 9.0	190 ± 10.3	173 ± 8.4
100.0	124 ± 13.0 ^s	122 ± 22.8 ^s	162 ± 11.8	182 ± 11.5	162 ± 20.6
333.0	0 ± 0.0 ^s		149 ± 7.0	198 ± 6.1	158 ± 6.9
1000.0			66 ± 29.8 ^s		108 ± 31.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					532 ± 27.4
Positive Control ³			428 ± 10.8		
Positive Control ⁵				513 ± 18.7	
Positive Control ⁶	604 ± 12.6				
Positive Control ⁷		1608 ± 18.5			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	190 ± 8.0
1.0	
3.0	188 ± 11.2
10.0	184 ± 22.8
33.0	198 ± 3.9
100.0	194 ± 4.4
333.0	190 ± 4.0
1000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	519 ± 19.7
Positive Control ⁵	
Positive Control ⁶	
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	14 ± 2.0	24 ± 2.7	29 ± 2.0	36 ± 2.7	40 ± 5.5
1.0		23 ± 1.5			
3.0	22 ± 2.7	23 ± 3.0		34 ± 6.4	
10.0	20 ± 5.2	18 ± 3.0	28 ± 1.7	33 ± 3.2	34 ± 4.2
33.0	22 ± 2.5	22 ± 5.0	29 ± 0.9	27 ± 3.5	33 ± 10.0
100.0	11 ± 1.8 ^s	14 ± 0.7 ^s	30 ± 4.7	26 ± 3.8	35 ± 4.9
333.0	0 ± 0.0 ^s		20 ± 3.9	25 ± 3.8	32 ± 4.3
1000.0			0 ± 0.0 ^s		6 ± 2.5 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					534 ± 46.2
Positive Control ³			335 ± 17.5	105 ± 9.0	
Positive Control ⁸	835 ± 91.9	711 ± 29.9			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	38 ± 3.8
1.0	
3.0	36 ± 4.3
10.0	37 ± 2.7
33.0	30 ± 0.9
100.0	28 ± 1.2
333.0	28 ± 0.7
1000.0	
Trial Summary	Negative
Positive Control ²	
Positive Control ³	420 ± 31.6
Positive Control ⁸	

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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: 25.0 ug/Plate 9-Aminoacridine

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****