

Experiment Number: 838973

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2-(2-Butoxyethoxy)ethyl thiocyanate

CAS Number: 112-56-1

Date Report Requested: 09/15/2018

Time Report Requested: 23:59:42

NTP Study Number:

838973

Study Result:

Negative

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Test Compound: 2-(2-Butoxyethoxy)ethyl thiocyanate
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Date Report Requested: 09/15/2018

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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	159 ± 5.3	155 ± 3.2	139 ± 5.8	165 ± 7.2	159 ± 2.3
10.0	169 ± 7.1	156 ± 4.7	142 ± 3.2	175 ± 0.9	161 ± 10.1
33.0	155 ± 13.9	156 ± 2.7	149 ± 13.2	184 ± 6.4	145 ± 2.7
100.0	179 ± 5.6	141 ± 4.1	148 ± 11.0	161 ± 12.8	126 ± 4.4
333.0	137 ± 7.7	105 ± 3.2	141 ± 7.2	171 ± 3.5	113 ± 13.4
666.0		113 ± 23.2	103 ± 2.7		91 ± 5.8
1000.0	79 ± 3.2			90 ± 9.8	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					808 ± 12.1
Positive Control ³			508 ± 28.2		
Positive Control ⁴	398 ± 5.9	389 ± 3.8			
Positive Control ⁵				442 ± 15.4	

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Date Report Requested: 09/15/2018

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	175 ± 1.9
10.0	166 ± 4.4
33.0	167 ± 6.2
100.0	167 ± 14.3
333.0	146 ± 8.5
666.0	
1000.0	54 ± 2.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	595 ± 4.0
Positive Control ⁴	
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	17 ± 1.7	19 ± 2.4	13 ± 3.2	30 ± 2.2	9 ± 0.7
10.0	16 ± 2.1	23 ± 1.9	11 ± 2.2	34 ± 2.6	9 ± 1.7
33.0	16 ± 2.6	23 ± 2.5	9 ± 1.2	10 ± 0.3	11 ± 1.5
100.0	16 ± 2.3	16 ± 2.6	8 ± 2.9	13 ± 3.3	7 ± 0.3
333.0	16 ± 2.3	19 ± 0.9	9 ± 3.2	11 ± 1.3	9 ± 0.3
666.0		20 ± 2.5	9 ± 0.6		5 ± 0.6
1000.0	8 ± 1.2			3 ± 0.6	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴	349 ± 16.7	256 ± 16.1			
Positive Control ³					136 ± 5.5
Positive Control ⁵			95 ± 2.8		
Positive Control ⁶				157 ± 10.3	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	9 ± 0.6
10.0	11 ± 0.9
33.0	11 ± 1.5
100.0	9 ± 1.5
333.0	7 ± 0.9
666.0	
1000.0	4 ± 1.9
Trial Summary	Negative
Positive Control ⁴	
Positive Control ³	
Positive Control ⁵	254 ± 10.8
Positive Control ⁶	

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Test Compound: 2-(2-Butoxyethoxy)ethyl thiocyanate
CAS Number: 112-56-1

Date Report Requested: 09/15/2018

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Strain: TA1537

Dose (ug/Plate)	Without S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	9 ± 1.5	9 ± 1.5	10 ± 1.7
10.0	9 ± 1.5	11 ± 1.7	14 ± 2.3
33.0	8 ± 1.7	12 ± 2.2	12 ± 1.8
100.0	7 ± 0.7	12 ± 1.2	10 ± 1.5
333.0	7 ± 0.0	8 ± 2.3	11 ± 1.2
1000.0	3 ± 1.5	5 ± 1.5	0 ± 0.0 ^s
Trial Summary	Negative	Negative	Negative
Positive Control ³			52 ± 2.2
Positive Control ⁵		50 ± 6.1	
Positive Control ⁷	941 ± 214.8		

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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	148 ± 5.0	178 ± 9.8	176 ± 3.1	100 ± 1.5	179 ± 5.0
10.0	154 ± 10.6	187 ± 10.9	196 ± 15.2	95 ± 10.7	201 ± 12.1
33.0	180 ± 17.4	169 ± 4.5	191 ± 18.7	117 ± 8.8	195 ± 12.5
100.0	177 ± 2.6	142 ± 9.8	205 ± 6.7	130 ± 16.7	182 ± 8.0
333.0	148 ± 22.8	164 ± 11.4	187 ± 23.7	81 ± 7.2	187 ± 7.9
666.0		158 ± 8.3	171 ± 21.8		175 ± 19.2
1000.0	42 ± 16.3			19 ± 5.7	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					444 ± 11.0
Positive Control ³			350 ± 20.0		
Positive Control ⁵				321 ± 25.3	
Positive Control ⁷	442 ± 46.0	773 ± 30.8			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	209 ± 9.6
10.0	222 ± 5.1
33.0	222 ± 5.5
100.0	227 ± 7.0
333.0	184 ± 5.7
666.0	
1000.0	99 ± 20.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	330 ± 13.1
Positive Control ⁵	
Positive Control ⁷	

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Test Compound: 2-(2-Butoxyethoxy)ethyl thiocyanate
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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	23 ± 1.0	17 ± 2.6	30 ± 4.2	48 ± 1.7	27 ± 3.8
10.0	20 ± 1.0	16 ± 4.3	30 ± 1.5	43 ± 5.4	34 ± 2.5
33.0	24 ± 1.5	17 ± 1.5	28 ± 1.5	46 ± 4.0	33 ± 4.7
100.0	26 ± 2.8	15 ± 1.5	22 ± 1.0	49 ± 5.0	28 ± 6.1
333.0	23 ± 1.5	17 ± 1.5	26 ± 4.2	42 ± 0.6	24 ± 2.3
666.0		16 ± 1.5	33 ± 3.2		22 ± 4.5
1000.0	16 ± 0.3			57 ± 5.9	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					600 ± 34.3
Positive Control ³			288 ± 12.3	134 ± 10.2	
Positive Control ⁸	716 ± 34.1	401 ± 16.7			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	34 ± 3.1
10.0	27 ± 2.3
33.0	32 ± 3.3
100.0	27 ± 3.2
333.0	22 ± 2.0
666.0	
1000.0	0 ± 0.0 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	414 ± 38.9
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: 5.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

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

s: Slight Toxicity

**** END OF REPORT ****