

Experiment Number: 874274

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: Di-n-butyl ether

CAS Number: 142-96-1

Date Report Requested: 09/16/2018

Time Report Requested: 16:50:46

NTP Study Number:

874274

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	109 ± 5.3	115 ± 3.2	126 ± 0.9	117 ± 6.5	130 ± 11.0
3.3	103 ± 3.6	124 ± 1.5	118 ± 11.9		121 ± 5.8
10.0	105 ± 6.0	128 ± 5.5	126 ± 1.5	114 ± 5.5	128 ± 6.4
33.0	115 ± 0.6	109 ± 5.7	125 ± 3.2	119 ± 5.7	119 ± 4.5
100.0	97 ± 1.5 ^S	87 ± 2.0 ^S	105 ± 2.1 ^S	120 ± 7.9	106 ± 11.8 ^S
200.0	70 ± 1.5 ^S	80 ± 6.2 ^S			
333.0			61 ± 30.7 ^S	98 ± 7.2 ^S	85 ± 8.1 ^S
666.0				96 ± 10.7 ^S	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					387 ± 13.6
Positive Control ³	438 ± 23.1	403 ± 22.0			
Positive Control ⁴			1388 ± 43.7		
Positive Control ⁵					
Positive Control ⁶				1463 ± 28.5	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	103 ± 6.2
3.3	
10.0	102 ± 7.7
33.0	113 ± 3.8
100.0	105 ± 1.7
200.0	
333.0	68 ± 4.6 ^S
666.0	69 ± 5.8 ^S
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	495 ± 29.5
Positive Control ⁶	

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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	25 ± 0.9	20 ± 3.0	22 ± 3.1	28 ± 4.6	18 ± 2.5
3.3	27 ± 1.9	17 ± 1.5	16 ± 0.7		21 ± 3.8
10.0	23 ± 1.0	19 ± 3.5	20 ± 0.6	30 ± 2.8	24 ± 2.8
33.0	22 ± 1.2	19 ± 4.0	20 ± 2.9	25 ± 1.9	19 ± 1.5
100.0	14 ± 0.6	13 ± 0.9 ^S	13 ± 1.5	23 ± 3.5	18 ± 2.6
200.0	18 ± 1.5 ^S	13 ± 3.0 ^S			
333.0			13 ± 0.9 ^S		13 ± 2.1 ^S
334.0				17 ± 1.5 ^S	
667.0				18 ± 2.0 ^S	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					71 ± 1.9
Positive Control ³	207 ± 13.6	251 ± 32.8			
Positive Control ⁶			280 ± 8.8	226 ± 4.7	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	40 ± 5.5
3.3	
10.0	36 ± 2.0
33.0	46 ± 2.3
100.0	35 ± 5.0
200.0	
333.0	
334.0	23 ± 3.5 ^s
667.0	18 ± 2.3 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁶	151 ± 6.0

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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	112 ± 1.5	106 ± 2.7	117 ± 8.7	164 ± 5.6	110 ± 7.7
3.3	105 ± 1.2	98 ± 3.9	121 ± 11.0		98 ± 7.4
10.0	97 ± 6.2	90 ± 1.7	130 ± 9.0	162 ± 12.5	109 ± 4.3
33.0	114 ± 3.3	102 ± 3.5	133 ± 6.6	162 ± 3.5	128 ± 8.9
100.0	96 ± 13.3 ^S	95 ± 7.8	124 ± 3.6 ^S	126 ± 1.0	119 ± 8.0
200.0	74 ± 5.8 ^S	99 ± 7.0 ^S			
333.0			102 ± 9.2 ^S		91 ± 7.3 ^S
334.0				119 ± 8.5 ^S	
667.0				87 ± 23.7 ^S	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴					1016 ± 24.9
Positive Control ⁶			3121 ± 102.2		
Positive Control ⁷				1040 ± 38.5	
Positive Control ⁸	372 ± 26.8	234 ± 19.2			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	158 ± 5.8
3.3	
10.0	148 ± 2.5
33.0	154 ± 5.9
100.0	139 ± 2.3
200.0	
333.0	
334.0	89 ± 5.5 ^s
667.0	55 ± 7.1 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	1251 ± 31.6
Positive Control ⁸	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 30% Rat S9
Vehicle Control ¹	29 ± 3.1	19 ± 1.5	35 ± 3.3	51 ± 2.2	46 ± 5.2
3.3	28 ± 1.7	26 ± 2.2	41 ± 4.2		
10.0	26 ± 3.5	21 ± 1.2	37 ± 4.1	46 ± 1.5	40 ± 5.0
33.0	23 ± 2.3	22 ± 1.9	34 ± 0.9	42 ± 4.9	39 ± 1.5
100.0	22 ± 3.0	14 ± 2.5 ^S	35 ± 1.8	44 ± 3.8	34 ± 4.3
200.0	21 ± 1.2 ^S	9 ± 1.2 ^S			
333.0			27 ± 3.5 ^S	35 ± 4.9 ^S	
334.0					19 ± 0.9 ^S
666.0				34 ± 2.3 ^S	
667.0					12 ± 0.9 ^S
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹					
Positive Control ²			275 ± 14.2		
Positive Control ⁵				458 ± 31.2	399 ± 5.9
Positive Control ¹⁰	281 ± 5.4	393 ± 13.9			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	35 ± 2.4	41 ± 6.4
3.3	41 ± 2.8	
10.0	36 ± 3.8	42 ± 2.0
33.0	35 ± 2.6	37 ± 3.9
100.0	33 ± 5.8	36 ± 1.2
200.0		
333.0	29 ± 3.5 ^S	33 ± 2.5 ^S
334.0		
666.0		27 ± 1.8 ^S
667.0		
Trial Summary	Negative	Negative
Positive Control ⁹	92 ± 4.5	
Positive Control ²		103 ± 4.4
Positive Control ⁵		
Positive Control ¹⁰		

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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: 95% Ethanol

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 24.0 ug/Plate 9-Aminoacridine

9: 0.2 ug/Plate 2-Aminoanthracene

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****