

Experiment Number: A37361

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

G06: Ames Summary Data

Test Compound: **t-Butyl formate**

CAS Number: **762-75-4**

Date Report Requested: **09/16/2018**

Time Report Requested: **20:36:10**

NTP Study Number:

A37361

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	115 ± 5.9	141 ± 0.9	122 ± 6.2	118 ± 6.7	136 ± 4.3
100.0	117 ± 2.0	139 ± 7.4	136 ± 11.8	114 ± 8.7	132 ± 1.5
333.0	118 ± 3.4	134 ± 9.0	119 ± 10.5	128 ± 9.5	123 ± 15.3
1000.0	123 ± 3.6	147 ± 5.8	133 ± 5.9	121 ± 10.5	147 ± 2.4
3333.0	109 ± 1.3	151 ± 7.1	132 ± 6.8	122 ± 6.9	122 ± 7.5
10000.0	103 ± 5.7	124 ± 2.6	117 ± 4.4	106 ± 4.0	82 ± 21.8
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1106 ± 92.7
Positive Control ³			680 ± 6.1		
Positive Control ⁴	890 ± 8.2	871 ± 60.0			
Positive Control ⁵				475 ± 11.6	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	117 ± 2.0
100.0	113 ± 7.9
333.0	115 ± 5.5
1000.0	116 ± 4.1
3333.0	112 ± 3.5
10000.0	109 ± 5.5
Trial Summary	Negative
Positive Control ²	
Positive Control ³	519 ± 9.5
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	10 ± 2.2	15 ± 1.7	19 ± 1.5	9 ± 1.5	15 ± 1.2
100.0	9 ± 1.8	17 ± 1.2	11 ± 1.7	11 ± 1.3	14 ± 0.3
333.0	13 ± 2.3	19 ± 3.2	14 ± 0.3	13 ± 1.8	14 ± 2.3
1000.0	11 ± 2.3	17 ± 1.5	9 ± 2.0	11 ± 2.0	12 ± 1.7
3333.0	10 ± 1.2	17 ± 2.7	11 ± 3.8	9 ± 1.8	10 ± 1.2
10000.0	8 ± 1.9	9 ± 0.9 ^s	15 ± 0.9	13 ± 3.2	8 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					182 ± 32.0
Positive Control ⁴	955 ± 8.3	854 ± 20.8			
Positive Control ⁵			104 ± 11.4		
Positive Control ⁶				231 ± 32.4	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.2
100.0	11 ± 0.9
333.0	12 ± 3.4
1000.0	6 ± 1.2
3333.0	10 ± 3.0
10000.0	9 ± 0.7
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	333 ± 15.3
Positive Control ⁶	

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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 ± 11.6	132 ± 13.5	144 ± 8.6	167 ± 10.2	164 ± 8.0
100.0	179 ± 3.0	138 ± 0.3	156 ± 11.3	163 ± 8.5	152 ± 7.8
333.0	162 ± 3.6	127 ± 1.2	154 ± 11.1	151 ± 12.8	162 ± 13.7
1000.0	177 ± 16.6	131 ± 15.2	173 ± 9.0	180 ± 12.2	168 ± 15.0
3333.0	193 ± 2.6	131 ± 6.2	158 ± 15.1	172 ± 5.5	181 ± 4.2
10000.0	164 ± 11.9	121 ± 9.3	157 ± 11.9	164 ± 6.8	167 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					847 ± 26.3
Positive Control ³			655 ± 27.5		
Positive Control ⁵				586 ± 38.7	
Positive Control ⁷	623 ± 23.5	482 ± 6.9			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	156 ± 7.0
100.0	162 ± 16.4
333.0	175 ± 11.8
1000.0	171 ± 12.2
3333.0	176 ± 12.7
10000.0	159 ± 24.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	626 ± 24.9
Positive Control ⁵	
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	12 ± 2.3	23 ± 3.7	18 ± 2.6	19 ± 1.2	26 ± 1.8
100.0	12 ± 3.3	18 ± 0.6	20 ± 2.4	20 ± 1.9	17 ± 2.3
333.0	15 ± 1.5	21 ± 2.1	20 ± 3.2	19 ± 3.3	16 ± 1.8
1000.0	16 ± 1.8	17 ± 2.3	20 ± 0.7	21 ± 0.3	17 ± 1.2
3333.0	20 ± 0.7	14 ± 1.2	21 ± 2.6	22 ± 3.5	19 ± 0.9
10000.0	17 ± 1.2	19 ± 1.2	15 ± 1.5	14 ± 2.2	21 ± 2.6
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					898 ± 37.5
Positive Control ³			526 ± 11.1		
Positive Control ⁸	303 ± 12.5	358 ± 21.2			
Positive Control ⁵				349 ± 16.5	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	24 ± 3.4
100.0	19 ± 0.3
333.0	16 ± 2.6
1000.0	16 ± 2.3
3333.0	18 ± 1.7
10000.0	15 ± 1.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	426 ± 15.5
Positive Control ⁸	
Positive Control ⁵	

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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: 1.0 ug/Plate 2-Aminoanthracene

3: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 10.0 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 ****