

Experiment Number: 981167

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

G06: Ames Summary Data

Test Compound: **t-Butyl glycidyl ether**

CAS Number: **7665-72-7**

Date Report Requested: **09/18/2018**

Time Report Requested: **03:28:21**

NTP Study Number:

981167

Study Result:

Positive

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Mutagenicity

G06: Ames Summary Data

Test Compound: t-Butyl glycidyl ether
CAS Number: 7665-72-7

Date Report Requested: 09/18/2018

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	91 ± 1.5	98 ± 7.0	98 ± 3.8	109 ± 2.6	112 ± 3.0
33.0		112 ± 4.5			
100.0	131 ± 4.7	170 ± 12.5	101 ± 6.2	118 ± 7.4	125 ± 2.9
333.0	331 ± 21.7	383 ± 10.2	99 ± 8.9	124 ± 9.5	127 ± 12.5
1000.0	756 ± 9.9	1367 ± 32.7	155 ± 9.5	188 ± 10.1	164 ± 3.3
3333.0		3523 ± 53.3 ^s		1117 ± 16.8	
3334.0	2742 ± 10.2 ^s		752 ± 12.7		496 ± 27.5
6666.0				2015 ± 53.2	
6667.0	1717 ± 208.5 ^s		1356 ± 42.5		1311 ± 47.7
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²	280 ± 9.5	259 ± 4.8			
Positive Control ³					302 ± 6.7
Positive Control ⁴			333 ± 13.8	392 ± 19.1	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	112 ± 5.8
33.0	
100.0	113 ± 9.1
333.0	121 ± 5.0
1000.0	142 ± 11.5
3333.0	790 ± 5.0
3334.0	
6666.0	2068 ± 40.2
6667.0	
Trial Summary	Positive
Positive Control ²	
Positive Control ³	353 ± 16.6
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	32 ± 1.2	22 ± 4.9	23 ± 3.9	19 ± 3.7	22 ± 1.9
100.0	40 ± 3.8	19 ± 0.5	24 ± 4.3	16 ± 1.7	18 ± 0.9
333.0	53 ± 0.7	44 ± 5.5	26 ± 0.7	21 ± 5.5	19 ± 4.1
1000.0	69 ± 4.1	68 ± 0.5	27 ± 1.2	20 ± 1.7	28 ± 4.3
3333.0	168 ± 4.7 ^s	154 ± 6.4 ^s	211 ± 5.8	155 ± 4.8	76 ± 5.0
6666.0	208 ± 14.2 ^s	125 ± 11.0 ^s	388 ± 8.3	353 ± 45.9	236 ± 28.5 ^s
Trial Summary	Positive	Positive	Positive	Positive	Positive
Positive Control ²	167 ± 4.2	115 ± 6.4			
Positive Control ³					56 ± 1.3
Positive Control ⁴			85 ± 8.1	76 ± 4.4	

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G06: Ames Summary Data

Test Compound: **t-Butyl glycidyl ether**

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	14 ± 2.6
100.0	14 ± 3.2
333.0	19 ± 6.0
1000.0	28 ± 4.9
3333.0	321 ± 20.5
6666.0	784 ± 92.7
Trial Summary	Positive
Positive Control ²	
Positive Control ³	108 ± 6.2
Positive Control ⁴	

Experiment Number: 981167

Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**Test Compound: t-Butyl glycidyl ether
CAS Number: 7665-72-7

Date Report Requested: 09/18/2018

Time Report Requested: 03:28:21

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Hamster S9	With 30% Hamster S9
Vehicle Control ¹	5 ± 2.1	5 ± 0.5	11 ± 1.9	9 ± 1.2	7 ± 2.0
100.0	6 ± 0.3	7 ± 1.5	10 ± 1.0	7 ± 1.5	9 ± 1.5
333.0	7 ± 1.0	5 ± 0.9	11 ± 0.6	14 ± 1.2	8 ± 1.8
1000.0	11 ± 3.2	6 ± 3.8	12 ± 1.2	10 ± 1.8	5 ± 1.0
3333.0	14 ± 3.0 ^s	11 ± 2.5 ^s	12 ± 1.2	19 ± 2.0	13 ± 1.2
6666.0	9 ± 3.0 ^s	6 ± 1.7 ^s	19 ± 1.7	11 ± 2.9 ^s	27 ± 1.7
Trial Summary	Equivocal	Negative	Negative	Equivocal	Weakly Positive
Positive Control ⁴			34 ± 4.2	111 ± 11.8	
Positive Control ⁵					104 ± 9.0
Positive Control ⁶	404 ± 17.5	40 ± 3.3			

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Test Type: Genetic Toxicology - Bacterial
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G06: Ames Summary Data

Test Compound: t-Butyl glycidyl ether
CAS Number: 7665-72-7

Date Report Requested: 09/18/2018

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 30% Rat S9	With 30% Rat S9	With 30% Hamster S9
Vehicle Control ¹	21 ± 3.5	14 ± 1.7	23 ± 1.2	17 ± 2.8	24 ± 3.8
33.0		9 ± 1.9			
100.0	16 ± 3.8	12 ± 2.4	25 ± 1.7	19 ± 1.5	31 ± 6.1
333.0	17 ± 0.9	Toxic	20 ± 0.6	23 ± 2.8	30 ± 4.5
1000.0	30 ± 0.9	25 ± 4.3	25 ± 2.6	25 ± 6.1	30 ± 0.3
3333.0		40 ± 5.6		32 ± 0.3	
3334.0	34 ± 2.6 ^s		33 ± 2.0		37 ± 2.3
6666.0				45 ± 2.6 ^s	
6667.0	20 ± 4.3 ^s		46 ± 4.3		50 ± 3.5
Trial Summary	Negative	Positive	Weakly Positive	Weakly Positive	Equivocal
Positive Control ⁷					86 ± 12.9
Positive Control ³			89 ± 4.4	112 ± 5.2	
Positive Control ⁸	214 ± 7.1	154 ± 7.5			

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	31 ± 5.9
33.0	
100.0	21 ± 3.2
333.0	28 ± 3.2
1000.0	25 ± 5.1
3333.0	32 ± 4.9
3334.0	
6666.0	39 ± 3.5
6667.0	
Trial Summary	Negative
Positive Control ⁷	81 ± 0.7
Positive Control ³	
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 Sodium Azide

3: 1.0 ug/Plate 2-Aminoanthracene

4: 2.0 ug/Plate 2-Aminoanthracene

5: 2.5 ug/Plate 2-Aminoanthracene

6: 4.0 ug/Plate 9-Aminoacridine

7: 0.4 ug/Plate 2-Aminoanthracene

8: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****