

Experiment Number: 738014

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4,5-T isobutyl ester

CAS Number: 4938-72-1

Date Report Requested: 09/17/2018

Time Report Requested: 05:39:37

NTP Study Number:

738014

Study Result:

Negative

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	144 ± 3.0	168 ± 7.1	135 ± 10.2	149 ± 7.8	130 ± 3.2
100.0	135 ± 12.1	125 ± 11.6	138 ± 5.2	144 ± 7.1	136 ± 6.2
333.0	124 ± 5.0	136 ± 5.0	131 ± 7.0	141 ± 2.6	132 ± 6.4
1000.0	122 ± 10.1	145 ± 11.9	127 ± 3.6	107 ± 12.0	107 ± 7.2
3333.0	139 ± 11.0	144 ± 5.7	113 ± 11.9	100 ± 4.3	129 ± 2.8
10000.0	130 ± 1.2 ^s	138 ± 9.0 ^s	112 ± 7.9 ^s	102 ± 5.0 ^s	112 ± 6.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					1244 ± 47.2
Positive Control ³			1213 ± 38.9	1081 ± 28.9	
Positive Control ⁴	1078 ± 42.5	1381 ± 17.2			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	175 ± 3.5
100.0	164 ± 2.7
333.0	162 ± 4.9
1000.0	152 ± 6.0
3333.0	144 ± 10.7
10000.0	115 ± 9.3 ^s
Trial Summary	Negative
Positive Control ²	1440 ± 101.1
Positive Control ³	
Positive Control ⁴	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	26 ± 0.7	37 ± 2.1	10 ± 1.5	17 ± 0.9	14 ± 1.8
100.0	27 ± 2.7	34 ± 1.3	12 ± 3.4	16 ± 0.7	11 ± 3.0
333.0	26 ± 2.6	28 ± 1.7	16 ± 4.7	11 ± 2.6	13 ± 2.1
1000.0	25 ± 0.3	31 ± 5.2	10 ± 0.3	10 ± 0.9	14 ± 1.2
3333.0	24 ± 2.0	31 ± 4.0	12 ± 3.2	14 ± 1.9	15 ± 1.7
10000.0	23 ± 4.1 ^s	27 ± 2.1	7 ± 1.5 ^s	10 ± 0.6	10 ± 2.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					81 ± 3.6
Positive Control ³			70 ± 3.9	81 ± 1.3	
Positive Control ⁴	900 ± 11.8	966 ± 19.1			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	17 ± 2.0
100.0	13 ± 2.1
333.0	12 ± 2.1
1000.0	11 ± 2.4
3333.0	14 ± 1.2
10000.0	10 ± 0.9 ^s
Trial Summary	Negative
Positive Control ²	90 ± 1.2
Positive Control ³	
Positive Control ⁴	

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	6 ± 1.2	6 ± 1.7	5 ± 1.3	7 ± 1.7	8 ± 0.9
100.0	5 ± 0.9	5 ± 0.6	7 ± 2.5	7 ± 0.9	10 ± 2.6
333.0	7 ± 0.6	5 ± 0.0	9 ± 0.6	6 ± 0.9	7 ± 0.6
1000.0	6 ± 2.3	6 ± 1.0	7 ± 0.3	6 ± 1.0	9 ± 1.9
3333.0	8 ± 0.9	3 ± 0.7	7 ± 1.0	8 ± 0.3	6 ± 1.2
10000.0	6 ± 1.8 ^s	4 ± 0.6	7 ± 1.5 ^s	3 ± 1.0	5 ± 1.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					75 ± 5.4
Positive Control ³			92 ± 3.7	94 ± 6.1	
Positive Control ⁵	261 ± 53.4	440 ± 98.8			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 3.0
100.0	8 ± 2.7
333.0	9 ± 0.3
1000.0	9 ± 1.8
3333.0	7 ± 2.0
10000.0	3 ± 1.8
Trial Summary	Negative
Positive Control ²	134 ± 1.2
Positive Control ³	
Positive Control ⁵	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	21 ± 0.7	21 ± 3.2	35 ± 3.8	34 ± 1.0	34 ± 1.9
100.0	20 ± 1.5	19 ± 2.3	24 ± 1.9	27 ± 4.9	38 ± 5.5
333.0	16 ± 1.2	19 ± 3.5	33 ± 4.4	27 ± 1.9	26 ± 3.7
1000.0	11 ± 1.0	17 ± 1.5	25 ± 7.6	26 ± 2.0	36 ± 1.3
3333.0	16 ± 1.5	21 ± 3.1	22 ± 2.4	25 ± 0.9	28 ± 4.6
10000.0	15 ± 1.0 ^s	18 ± 1.7	15 ± 1.2 ^s	14 ± 0.0	24 ± 3.0 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					987 ± 38.2
Positive Control ³			1002 ± 9.4	1028 ± 15.0	
Positive Control ⁶	1331 ± 22.8	1480 ± 28.6			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	31 ± 5.2
100.0	38 ± 5.5
333.0	40 ± 2.4
1000.0	34 ± 1.9
3333.0	25 ± 4.5
10000.0	25 ± 2.4
Trial Summary	Negative
Positive Control ²	1405 ± 54.9
Positive Control ³	
Positive Control ⁶	

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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: 0.75 ug/Plate 2-Aminoanthracene

3: 1.5 ug/Plate 2-Aminoanthracene

4: 2.5 ug/Plate Sodium Azide

5: 80.0 ug/Plate 9-Aminoacridine

6: 12.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

** END OF REPORT **