

Experiment Number: 442194

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2,4-D isooctyl ester

CAS Number: 25168-26-7

Date Report Requested: 09/10/2018

Time Report Requested: 21:56:53

NTP Study Number:

442194

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	111 ± 6.1	92 ± 12.6	111 ± 12.5	123 ± 4.9	99 ± 3.5
10.0		103 ± 3.8			
33.3	123 ± 11.3	80 ± 13.3	113 ± 6.4	94 ± 11.3	98 ± 2.8
100.0	127 ± 11.3	90 ± 4.2	108 ± 8.5	98 ± 2.8	80 ± 3.2
333.3	100 ± 2.3	82 ± 11.4	125 ± 6.3	94 ± 5.0	104 ± 11.3
1000.0	81 ± 3.9 ^s	61 ± 10.8 ^s	80 ± 4.7	80 ± 3.1	63 ± 7.5 ^s
3333.3	Toxic		49 ± 9.1 ^s	56 ± 4.4 ^s	15 ± 8.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1075 ± 30.0	549 ± 71.3	1119 ± 119.8
Positive Control ³	483 ± 7.2	416 ± 11.3			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	98 ± 6.7
10.0	107 ± 11.0
33.3	86 ± 11.3
100.0	81 ± 5.2
333.3	83 ± 6.4
1000.0	52 ± 6.2 ^s
3333.3	
Trial Summary	Negative
Positive Control ²	2115 ± 14.6
Positive Control ³	

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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	32 ± 2.3	20 ± 4.4	14 ± 0.6	8 ± 1.7	12 ± 2.2
10.0		16 ± 0.9			
33.3	28 ± 2.0	23 ± 4.4	13 ± 3.2	17 ± 0.9	16 ± 2.3
100.0	32 ± 8.7	19 ± 4.2	11 ± 2.5	12 ± 1.8	10 ± 1.7
333.3	30 ± 5.2	20 ± 3.2	10 ± 2.0	13 ± 3.0	9 ± 3.5
1000.0	32 ± 6.0 ^s	24 ± 3.7 ^s	16 ± 2.3	10 ± 1.5	8 ± 0.7 ^s
3333.3	Toxic		15 ± 2.5	7 ± 2.4 ^s	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³	412 ± 9.4	346 ± 14.4			
Positive Control ⁴			314 ± 14.9	167 ± 4.9	257 ± 13.8

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.7
10.0	15 ± 1.5
33.3	13 ± 0.3
100.0	10 ± 2.2
333.3	8 ± 0.0
1000.0	14 ± 2.9
3333.3	
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	266 ± 9.5

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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	16 ± 3.8	5 ± 1.7	16 ± 1.5	6 ± 1.2	16 ± 2.1
10.0		5 ± 0.9			
33.3	10 ± 1.8	6 ± 0.6	16 ± 4.0	6 ± 0.3	27 ± 2.0
100.0	11 ± 2.2	4 ± 1.5	13 ± 0.3	6 ± 1.5	22 ± 2.5
333.3	7 ± 0.7	5 ± 1.0	8 ± 1.2	7 ± 1.2	17 ± 1.2
1000.0	6 ± 0.9 ^s	3 ± 0.3	11 ± 2.7	6 ± 1.5	13 ± 1.9 ^s
3333.3	Toxic		10 ± 2.5	0 ± 0.3 ^s	4 ± 1.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			495 ± 52.6	239 ± 24.6	459 ± 52.4
Positive Control ⁵	329 ± 159.1	847 ± 54.3			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 1.3
10.0	7 ± 1.2
33.3	6 ± 0.9
100.0	7 ± 0.3
333.3	6 ± 0.6
1000.0	4 ± 1.5 ^s
3333.3	
Trial Summary	Negative
Positive Control ⁴	411 ± 10.3
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	29 ± 0.9	34 ± 4.5	40 ± 3.3	43 ± 1.0	47 ± 7.6
10.0		33 ± 2.3			
33.3	28 ± 5.4	26 ± 2.0	52 ± 1.5	43 ± 6.4	45 ± 3.5
100.0	29 ± 1.8	27 ± 6.4	48 ± 2.7	44 ± 2.4	39 ± 2.8
333.3	26 ± 2.9	24 ± 6.3	40 ± 0.7	38 ± 4.0	42 ± 4.5
1000.0	25 ± 5.3 ^s	22 ± 2.7 ^s	38 ± 1.9	31 ± 3.0	32 ± 3.5 ^s
3333.3	Toxic		32 ± 5.0 ^s	29 ± 4.6	11 ± 4.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			574 ± 22.3	365 ± 22.9	570 ± 57.5
Positive Control ⁶	691 ± 10.1	671 ± 57.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	33 ± 2.3
10.0	19 ± 2.9
33.3	13 ± 0.3
100.0	12 ± 0.3
333.3	14 ± 2.1
1000.0	15 ± 0.9
3333.3	
Trial Summary	Negative
Positive Control ²	1271 ± 7.8
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: 1.0 ug/Plate 2-Aminoanthracene

3: 1.0 ug/Plate Sodium Azide

4: 2.5 ug/Plate 2-Aminoanthracene

5: 50.0 ug/Plate 9-Aminoacridine

6: 5.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****