

Experiment Number: 980375

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: DMA-4 herbicide

CAS Number: 2008-39-1

Date Report Requested: 09/18/2018

Time Report Requested: 03:24:40

NTP Study Number:

980375

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	98 ± 1.2	101 ± 5.2	76 ± 5.0	115 ± 11.3	78 ± 2.8
100.0	67 ± 2.7	102 ± 2.8	89 ± 3.7	102 ± 18.6	86 ± 7.2
333.3	52 ± 7.3	90 ± 4.7	84 ± 3.5	107 ± 11.6	88 ± 6.7
1000.0	66 ± 7.4	96 ± 3.3	88 ± 7.4	104 ± 9.3	72 ± 1.5
3333.3	45 ± 3.0	79 ± 6.4	64 ± 1.0	104 ± 4.2	71 ± 4.2
10000.0	0 ± 0.0 ^s	24 ± 1.5 ^s	0 ± 0.0 ^s	67 ± 13.4 ^s	42 ± 1.9 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	500 ± 10.9	535 ± 9.8			
Positive Control ³			820 ± 22.7	563 ± 92.3	2001 ± 26.9

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	92 ± 5.2
100.0	108 ± 11.0
333.3	112 ± 7.5
1000.0	103 ± 0.9
3333.3	101 ± 14.7
10000.0	96 ± 5.0
Trial Summary	Negative
Positive Control ²	
Positive Control ³	1282 ± 16.4

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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	13 ± 2.6	14 ± 3.3	5 ± 1.2	9 ± 2.0	4 ± 0.7
100.0	6 ± 1.3	12 ± 1.5	7 ± 1.0	5 ± 1.7	6 ± 0.6
333.3	9 ± 2.6	14 ± 1.0	7 ± 1.9	5 ± 0.6	2 ± 1.5
1000.0	6 ± 0.6	11 ± 3.1	8 ± 0.6	3 ± 0.6	5 ± 0.0
3333.3	5 ± 0.3	9 ± 2.0	6 ± 0.3	6 ± 1.8	4 ± 2.0
10000.0	6 ± 1.2	2 ± 1.0	3 ± 0.3	4 ± 1.2	4 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	354 ± 8.9	400 ± 33.0			
Positive Control ⁴			313 ± 36.4	262 ± 23.4	294 ± 11.8

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	7 ± 0.0
100.0	6 ± 0.0
333.3	7 ± 1.2
1000.0	9 ± 2.3
3333.3	5 ± 1.5
10000.0	6 ± 1.2
Trial Summary	Negative
Positive Control ²	
Positive Control ⁴	336 ± 12.4

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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	5 ± 0.3	11 ± 2.3	5 ± 0.6	11 ± 2.5	6 ± 1.7
100.0	5 ± 0.7	8 ± 2.3	7 ± 0.3	14 ± 0.3	7 ± 2.7
333.3	4 ± 0.6	9 ± 2.1	6 ± 0.6	19 ± 3.2	5 ± 1.2
1000.0	2 ± 0.3	6 ± 0.9	6 ± 1.2	15 ± 1.7	4 ± 1.5
3333.3	3 ± 1.2	5 ± 1.5	5 ± 1.8	9 ± 2.6	7 ± 0.9
10000.0	2 ± 0.7	2 ± 0.3	3 ± 1.2	1 ± 0.7 ^s	5 ± 0.3
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴			228 ± 26.0	433 ± 66.5	357 ± 19.4
Positive Control ⁵	87 ± 29.8	156 ± 47.2			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	10 ± 1.8
100.0	16 ± 1.9
333.3	15 ± 1.5
1000.0	11 ± 2.1
3333.3	6 ± 2.1
10000.0	5 ± 1.5
Trial Summary	Negative
Positive Control ⁴	604 ± 25.4
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	24 ± 3.1	21 ± 3.1	26 ± 1.3	29 ± 4.9	23 ± 2.7
100.0	20 ± 2.6	20 ± 0.3	32 ± 2.2	36 ± 3.2	35 ± 2.4
333.3	15 ± 3.8	19 ± 2.5	29 ± 5.0	39 ± 5.0	32 ± 2.9
1000.0	18 ± 3.7	17 ± 1.0	21 ± 2.5	38 ± 0.3	24 ± 6.7
3333.3	20 ± 3.1	17 ± 2.6	21 ± 1.5	27 ± 1.8	19 ± 0.6
10000.0	11 ± 1.0	8 ± 2.6	18 ± 2.4	22 ± 7.0	21 ± 2.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			369 ± 25.2	309 ± 49.9	1567 ± 157.2
Positive Control ⁶	729 ± 11.0	651 ± 23.9			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	24 ± 2.9
100.0	27 ± 1.8
333.3	28 ± 1.5
1000.0	27 ± 1.5
3333.3	33 ± 5.9
10000.0	23 ± 1.2
Trial Summary	Negative
Positive Control ³	924 ± 31.4
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 Sodium Azide
- 3: 1.0 ug/Plate 2-Aminoanthracene
- 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 **