

Experiment Number: 834539

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

G06: Ames Summary Data

Test Compound: **2-(Dimethylamino)ethyl acrylate**

CAS Number: 2439-35-2

Date Report Requested: 09/15/2018

Time Report Requested: 19:57:41

NTP Study Number:

834539

Study Result:

Negative

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Mutagenicity**G06: Ames Summary Data**

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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	106 ± 10.7	119 ± 11.9	145 ± 10.7	214 ± 6.1	207 ± 6.3
100.0	118 ± 4.6	105 ± 2.5	132 ± 14.1	210 ± 9.4	166 ± 9.8
333.0	126 ± 10.8	97 ± 4.4	115 ± 4.3	198 ± 11.7	134 ± 3.8
1000.0	118 ± 1.5	98 ± 6.1	111 ± 1.2	181 ± 18.2	137 ± 9.0
3333.0	105 ± 4.7	96 ± 9.0	101 ± 2.7	75 ± 2.2	107 ± 5.5
10000.0	84 ± 0.0	8 ± 5.0	Toxic	38 ± 33.5	Toxic
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²			1309 ± 76.3	2124 ± 61.4	1517 ± 122.9
Positive Control ³	1626 ± 22.9	404 ± 7.1			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	224 ± 6.9
100.0	213 ± 7.7
333.0	185 ± 4.9
1000.0	175 ± 6.4
3333.0	63 ± 2.7
10000.0	Toxic
Trial Summary	Negative
Positive Control ²	1641 ± 120.5
Positive Control ³	

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	9 ± 0.9	16 ± 0.9	10 ± 1.8	14 ± 1.2	25 ± 1.5
10.0			12 ± 1.8		
33.0			5 ± 0.6		
100.0	6 ± 1.2	23 ± 3.2	5 ± 1.3	9 ± 2.8	25 ± 1.5
333.0	6 ± 2.3	20 ± 1.5	2 ± 1.2	5 ± 1.0	24 ± 1.5
1000.0	8 ± 2.3	14 ± 2.7	Toxic	11 ± 1.8	19 ± 1.9
3333.0	1 ± 0.9	0 ± 0.0	0 ± 0.0	4 ± 1.0	3 ± 1.2
10000.0	2 ± 0.3	0 ± 0.0		4 ± 1.2	0 ± 0.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				287 ± 20.2	1008 ± 12.7
Positive Control ³	454 ± 125.2	1037 ± 50.3	866 ± 181.1		

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Strain: TA1535

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	11 ± 1.0	17 ± 0.7	32 ± 2.4	6 ± 1.7
10.0	5 ± 1.7			10 ± 0.3
33.0	8 ± 3.0			6 ± 0.9
100.0	8 ± 1.7	15 ± 2.2	30 ± 1.8	9 ± 0.6
333.0	10 ± 1.7	15 ± 2.3	22 ± 1.2	7 ± 0.7
1000.0	6 ± 1.5	9 ± 1.2	19 ± 1.0	Toxic
3333.0	5 ± 0.5	2 ± 0.6	0 ± 0.0	1 ± 1.0
10000.0		1 ± 0.3	0 ± 0.0	
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴	123 ± 12.5	249 ± 45.3	598 ± 36.8	92 ± 3.2
Positive Control ³				

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Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	8 ± 1.2	6 ± 0.0	9 ± 1.9	14 ± 2.7	19 ± 2.1
10.0			7 ± 1.2		
33.0		7 ± 2.6	5 ± 0.7		13 ± 2.2
100.0	5 ± 0.9	11 ± 1.5	7 ± 0.3	12 ± 1.0	17 ± 1.7
333.0	8 ± 0.6	8 ± 1.5	4 ± 1.7	8 ± 1.5	14 ± 3.5
1000.0	5 ± 1.0	Toxic	Toxic	6 ± 1.2	10 ± 2.8
3333.0	3 ± 0.7	0 ± 0.0	0 ± 0.0	Toxic	Toxic
10000.0	0 ± 0.3			0 ± 0.0	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁴				338 ± 43.8	91 ± 11.5
Positive Control ⁵	233 ± 53.5	770 ± 94.0	1031 ± 121.8		

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Strain: TA1537

Dose (ug/Plate)	With 10% Rat S9	With 10% Hamster S9	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	14 ± 1.9	16 ± 2.0	10 ± 2.5	13 ± 2.6
10.0				
33.0	12 ± 3.2		14 ± 1.2	13 ± 1.2
100.0	13 ± 2.7	14 ± 1.5	11 ± 1.5	17 ± 1.7
333.0	8 ± 1.5	10 ± 2.5	10 ± 2.6	11 ± 0.7
1000.0	4 ± 0.9	5 ± 1.3	10 ± 1.7	8 ± 1.2
3333.0	Toxic	1 ± 1.0	Toxic	Toxic
10000.0		0 ± 0.0		
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴	995 ± 22.0	232 ± 15.3	425 ± 29.0	672 ± 52.9
Positive Control ⁵				

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	15 ± 1.5	21 ± 1.5	23 ± 0.6	29 ± 1.7	42 ± 3.8
33.0		23 ± 1.5	27 ± 2.4		39 ± 3.8
100.0	15 ± 2.2	25 ± 5.5	38 ± 1.5	26 ± 2.8	34 ± 6.0
333.0	12 ± 1.8	24 ± 1.8	30 ± 5.2	22 ± 2.0	32 ± 3.4
1000.0	9 ± 1.2	17 ± 3.1	23 ± 2.3	19 ± 3.2	28 ± 1.7
3333.0	2 ± 2.0	0 ± 0.0	Toxic	27 ± 3.8	15 ± 1.7
10000.0	0 ± 0.0			Toxic	
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²				497 ± 51.3	1595 ± 62.8
Positive Control ⁶	323 ± 17.5	293 ± 9.3	524 ± 13.8		

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9	With 10% Hamster S9
Vehicle Control ¹	32 ± 0.3	37 ± 0.6
33.0		42 ± 3.5
100.0	28 ± 2.6	38 ± 2.8
333.0	21 ± 4.2	34 ± 3.3
1000.0	19 ± 1.5	27 ± 2.3
3333.0	14 ± 1.2	15 ± 1.5
10000.0	1 ± 0.3	
Trial Summary	Negative	Negative
Positive Control ²	764 ± 29.4	1122 ± 179.1
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: 3.3 ug/Plate Sodium Azide

4: 2.0 ug/Plate 2-Aminoanthracene

5: 33.0 ug/Plate 9-Aminoacridine

6: 3.3 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****