

Experiment Number: 471369

Test Type: Genetic Toxicology - Bacterial
Mutagenicity

G06: Ames Summary Data

Test Compound: 2'-Methyl-4-dimethylaminobenzene

CAS Number: 3731-39-3

Date Report Requested: 09/11/2018

Time Report Requested: 16:12:47

NTP Study Number:

471369

Study Result:

Equivocal

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Test Compound: 2'-Methyl-4-dimethylaminobenzene
CAS Number: 3731-39-3

Date Report Requested: 09/11/2018

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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	123 ± 3.7	126 ± 14.5	109 ± 4.5	131 ± 0.6	125 ± 15.7
100.0	103 ± 10.7 ^P	125 ± 6.7 ^P	131 ± 6.6 ^P	159 ± 11.8 ^P	125 ± 7.5 ^P
333.0	99 ± 3.2 ^P	117 ± 4.7 ^P	116 ± 7.9 ^P	146 ± 9.0 ^P	106 ± 4.7 ^P
1000.0	101 ± 5.2 ^P	114 ± 5.7 ^P	125 ± 6.6 ^P	135 ± 4.9 ^P	106 ± 7.9 ^P
3333.0	98 ± 2.0 ^P	113 ± 5.2 ^P	114 ± 6.9 ^P	127 ± 4.7 ^P	108 ± 4.8 ^P
10000.0	112 ± 4.3 ^P	117 ± 7.4 ^P	123 ± 4.0 ^P	136 ± 7.5 ^P	120 ± 7.0 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					2821 ± 57.9
Positive Control ³			1754 ± 62.7	1212 ± 25.3	
Positive Control ⁴	1593 ± 35.9	1178 ± 16.0			

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Strain: TA100

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	118 ± 0.3
100.0	133 ± 9.2 ^P
333.0	127 ± 4.7 ^P
1000.0	117 ± 6.4 ^P
3333.0	124 ± 7.5 ^P
10000.0	118 ± 2.7 ^P
Trial Summary	Negative
Positive Control ²	2516 ± 41.2
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	16 ± 0.7	13 ± 2.6	11 ± 0.3	15 ± 1.7	7 ± 0.6
100.0	19 ± 2.7 ^P	13 ± 0.9 ^P	9 ± 0.7 ^P	10 ± 1.2 ^P	8 ± 4.2 ^P
333.0	15 ± 0.7 ^P	12 ± 1.7 ^P	7 ± 0.7 ^P	12 ± 3.0 ^P	9 ± 1.2 ^P
1000.0	11 ± 1.5 ^P	13 ± 1.9 ^P	9 ± 0.3 ^P	12 ± 1.2 ^P	6 ± 0.3 ^P
3333.0	15 ± 2.6 ^P	16 ± 2.0 ^P	6 ± 0.9 ^P	7 ± 2.9 ^P	8 ± 0.3 ^P
10000.0	14 ± 1.5 ^P	13 ± 1.7 ^P	8 ± 1.2 ^P	7 ± 1.3 ^P	10 ± 1.9 ^P
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					171 ± 7.7
Positive Control ³			123 ± 9.6	62 ± 2.0	
Positive Control ⁴	1175 ± 35.4	765 ± 20.5			

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Strain: TA1535

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.3
100.0	5 ± 0.9 ^p
333.0	6 ± 0.3 ^p
1000.0	7 ± 0.7 ^p
3333.0	9 ± 1.3 ^p
10000.0	10 ± 2.3 ^p
Trial Summary	Negative
Positive Control ²	119 ± 7.2
Positive Control ³	
Positive Control ⁴	

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Test Compound: 2'-Methyl-4-dimethylaminobenzene

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CAS Number: 3731-39-3

Strain: TA1537

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9	With 10% Hamster S9
Vehicle Control ¹	4 ± 0.6	5 ± 1.5	7 ± 0.3	6 ± 0.7	5 ± 1.3
100.0	6 ± 1.2 ^p	6 ± 0.6 ^p	6 ± 0.7 ^p	6 ± 0.9 ^p	7 ± 1.5 ^p
333.0	5 ± 1.8 ^p	8 ± 1.0 ^p	6 ± 0.6 ^p	8 ± 3.1 ^p	5 ± 0.9 ^p
1000.0	7 ± 2.6 ^p	7 ± 1.5 ^p	7 ± 1.9 ^p	5 ± 0.9 ^p	5 ± 1.2 ^p
3333.0	5 ± 1.7 ^p	6 ± 1.2 ^p	9 ± 1.2 ^p	6 ± 0.7 ^p	6 ± 0.9 ^p
10000.0	5 ± 0.9 ^p	6 ± 0.9 ^p	17 ± 4.4 ^p	11 ± 0.6 ^p	7 ± 1.5 ^p
Trial Summary	Negative	Negative	Equivocal	Negative	Negative
Positive Control ²					316 ± 38.2
Positive Control ³			163 ± 7.5	93 ± 9.9	
Positive Control ⁵	253 ± 28.3	259 ± 38.6			

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Strain: TA1537

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	8 ± 0.7
100.0	6 ± 2.3 ^P
333.0	5 ± 0.9 ^P
1000.0	8 ± 0.7 ^P
3333.0	4 ± 1.5 ^P
10000.0	6 ± 0.7 ^P
Trial Summary	Negative
Positive Control ²	256 ± 20.5
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	15 ± 1.5	18 ± 3.2	22 ± 1.2	24 ± 2.8	26 ± 5.5
100.0	16 ± 0.9 ^P	16 ± 2.6 ^P	46 ± 3.5 ^P	48 ± 2.6 ^P	26 ± 0.9 ^P
333.0	20 ± 2.6 ^P	15 ± 0.9 ^P	31 ± 2.4 ^P	27 ± 3.5 ^P	19 ± 1.8 ^P
1000.0	19 ± 3.0 ^P	17 ± 2.4 ^P	28 ± 4.1 ^P	30 ± 5.0 ^P	18 ± 2.6 ^P
3333.0	25 ± 2.0 ^P	25 ± 3.5 ^P	25 ± 2.6 ^P	34 ± 4.2 ^P	21 ± 2.7 ^P
10000.0	31 ± 4.6 ^P	29 ± 1.5 ^P	62 ± 2.9 ^P	47 ± 3.8 ^P	37 ± 2.1 ^P
Trial Summary	Equivocal	Negative	Equivocal	Equivocal	Negative
Positive Control ²					2831 ± 69.3
Positive Control ³			1993 ± 24.4	1353 ± 62.3	
Positive Control ⁶	1855 ± 52.6	1630 ± 14.5			

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Strain: TA98

Dose (ug/Plate)	With 10% Hamster S9
Vehicle Control ¹	26 ± 6.0
100.0	23 ± 2.6 ^P
333.0	18 ± 2.9 ^P
1000.0	25 ± 1.5 ^P
3333.0	24 ± 2.0 ^P
10000.0	30 ± 3.8 ^P
Trial Summary	Negative
Positive Control ²	2797 ± 95.7
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

p: Precipitate

**** END OF REPORT ****