

Experiment Number: A28742

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

G06: Ames Summary Data

Test Compound: **2-Methylimidazole**

CAS Number: **693-98-1**

Date Report Requested: **09/16/2018**

Time Report Requested: **14:41:49**

NTP Study Number:

A28742

Study Result:

Negative

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Test Compound: 2-Methylimidazole

CAS Number: 693-98-1

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Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	108 ± 2.4	125 ± 2.6	141 ± 2.6	108 ± 3.2	140 ± 2.6
100.0	111 ± 3.2	126 ± 3.5	137 ± 3.2	113 ± 3.8	142 ± 3.0
333.0	111 ± 4.4	131 ± 2.3	143 ± 2.3	122 ± 2.1	139 ± 3.2
1000.0	110 ± 1.7	129 ± 2.6	133 ± 3.8	120 ± 4.3	142 ± 2.3
3333.0	110 ± 4.4	122 ± 2.6	135 ± 3.2	108 ± 4.8	138 ± 4.1
10000.0	94 ± 3.8 ^s	103 ± 3.5 ^s	138 ± 3.2	137 ± 3.5	118 ± 1.8 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	891 ± 5.7	890 ± 12.5			
Positive Control ³			961 ± 36.1	783 ± 9.3	1009 ± 7.5

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	139 ± 2.0
100.0	136 ± 2.6
333.0	132 ± 3.8
1000.0	134 ± 2.7
3333.0	138 ± 2.9
10000.0	113 ± 3.2 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	766 ± 17.0

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Strain: TA1535

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	15 ± 1.2	14 ± 1.2	10 ± 1.8	16 ± 2.0	12 ± 1.5
100.0	15 ± 2.1	16 ± 2.7	11 ± 2.0	17 ± 1.8	11 ± 1.5
333.0	16 ± 1.8	15 ± 1.5	11 ± 1.8	16 ± 2.2	12 ± 1.2
1000.0	16 ± 2.6	12 ± 0.9	12 ± 1.7	15 ± 2.6	9 ± 1.8
3333.0	15 ± 1.2	12 ± 0.7	9 ± 1.5	13 ± 1.5	10 ± 1.2
10000.0	14 ± 0.9	11 ± 1.9	10 ± 2.5	12 ± 1.2	8 ± 2.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²	335 ± 3.8	535 ± 7.2			
Positive Control ³			346 ± 6.8	351 ± 4.8	367 ± 4.3

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Test Compound: **2-Methylimidazole**

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Date Report Requested: **09/16/2018**

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	17 ± 2.4
100.0	15 ± 2.6
333.0	16 ± 1.8
1000.0	14 ± 1.5
3333.0	17 ± 1.5
10000.0	14 ± 1.9
Trial Summary	Negative
Positive Control ²	
Positive Control ³	372 ± 4.6

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Test Type: Genetic Toxicology - Bacterial
Mutagenicity**G06: Ames Summary Data**

Test Compound: 2-Methylimidazole

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Strain: TA97

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	98 ± 2.0	93 ± 2.8	125 ± 2.2	120 ± 4.0	99 ± 1.8
100.0	98 ± 3.8	97 ± 2.0	123 ± 4.1	124 ± 2.3	100 ± 2.1
333.0	102 ± 2.7	95 ± 2.0	123 ± 3.4	119 ± 3.5	104 ± 2.6
1000.0	94 ± 2.3	94 ± 2.4	125 ± 2.7	121 ± 3.5	97 ± 3.5
3333.0	94 ± 3.0	94 ± 1.5	122 ± 2.1	121 ± 2.3	106 ± 2.0
10000.0	97 ± 2.6	94 ± 2.9	120 ± 2.6	116 ± 2.6	105 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³			537 ± 6.4	604 ± 15.3	938 ± 5.5
Positive Control ⁴	508 ± 11.9	625 ± 26.1			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	112 ± 2.3
100.0	105 ± 3.5
333.0	112 ± 3.2
1000.0	106 ± 5.8
3333.0	106 ± 7.3
10000.0	99 ± 4.1
Trial Summary	Negative
Positive Control ³	572 ± 20.4
Positive Control ⁴	

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Strain: TA98

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	31 ± 2.6	18 ± 0.9	43 ± 2.4	38 ± 1.7	46 ± 1.5
100.0	32 ± 2.5	20 ± 2.2	42 ± 1.5	36 ± 1.7	46 ± 3.5
333.0	32 ± 2.1	19 ± 1.8	41 ± 1.8	32 ± 2.0	45 ± 2.6
1000.0	29 ± 2.3	19 ± 2.6	47 ± 2.2	47 ± 0.7	45 ± 1.9
3333.0	32 ± 1.5	24 ± 1.8	44 ± 2.5	40 ± 2.3	48 ± 2.3
10000.0	19 ± 0.9 ^s	21 ± 2.9	45 ± 0.9	36 ± 3.2	48 ± 1.5
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁵	252 ± 6.8	429 ± 5.5			
Positive Control ³			931 ± 3.5	577 ± 6.1	980 ± 3.8

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	41 ± 2.1
100.0	36 ± 0.7
333.0	36 ± 0.3
1000.0	40 ± 3.5
3333.0	39 ± 2.3
10000.0	33 ± 3.8
Trial Summary	Negative
Positive Control ⁵	
Positive Control ³	954 ± 15.2

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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: 50.0 ug/Plate 9-Aminoacridine

5: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****