

Experiment Number: A53668

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

G06: Ames Summary Data

Test Compound: **4-Methylimidazole**

CAS Number: **822-36-6**

Date Report Requested: **09/17/2018**

Time Report Requested: **04:33:00**

NTP Study Number:

A53668

Study Result:

Negative

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Test Compound: 4-Methylimidazole

CAS Number: 822-36-6

Date Report Requested: 09/17/2018

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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	136 ± 2.9	131 ± 3.5	135 ± 5.3	155 ± 3.5	131 ± 3.0
100.0	153 ± 7.0	119 ± 4.3	133 ± 2.8	163 ± 10.2	133 ± 9.5
333.0	143 ± 4.7	127 ± 0.0	125 ± 1.2	156 ± 5.2	129 ± 2.3
1000.0	152 ± 14.4	121 ± 6.4	149 ± 5.5	158 ± 2.6	133 ± 2.6
3333.0	149 ± 0.3	121 ± 8.4	128 ± 7.6	157 ± 4.1	131 ± 1.8
10000.0	144 ± 8.4	115 ± 3.2	123 ± 3.0	150 ± 12.4	126 ± 1.2
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					426 ± 13.1
Positive Control ³			334 ± 16.9		
Positive Control ⁴	959 ± 5.8	991 ± 51.4			
Positive Control ⁵				817 ± 34.8	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	160 ± 4.7
100.0	166 ± 4.0
333.0	164 ± 4.4
1000.0	171 ± 4.1
3333.0	169 ± 5.2
10000.0	151 ± 7.8
Trial Summary	Negative
Positive Control ²	
Positive Control ³	562 ± 16.6
Positive Control ⁴	
Positive Control ⁵	

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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	11 ± 1.8	14 ± 2.9	13 ± 2.4	11 ± 1.0	13 ± 1.0
0.0					0 ± 0.0
100.0	13 ± 0.6	15 ± 0.7	13 ± 0.3	11 ± 0.3	13 ± 2.1
333.0	15 ± 1.7	16 ± 1.5	12 ± 1.5	13 ± 3.2	12 ± 0.3
1000.0	12 ± 2.5	13 ± 2.5	9 ± 0.3	12 ± 1.5	16 ± 2.8
3333.0	14 ± 0.9	17 ± 0.3	13 ± 2.4	12 ± 1.5	9 ± 0.3
10000.0	12 ± 1.2	9 ± 0.6	13 ± 1.9	15 ± 2.6	13 ± 1.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ³					136 ± 5.8
Positive Control ⁴	858 ± 15.0	830 ± 12.6			
Positive Control ⁵			137 ± 6.4		
Positive Control ⁶				143 ± 11.1	

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G06: Ames Summary Data

Test Compound: **4-Methylimidazole**

CAS Number: **822-36-6**

Date Report Requested: **09/17/2018**

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	13 ± 0.9
0.0	
100.0	15 ± 1.5
333.0	11 ± 0.9
1000.0	13 ± 1.5
3333.0	13 ± 0.6
10000.0	12 ± 2.5
Trial Summary	Negative
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	145 ± 4.4
Positive Control ⁶	

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Test Compound: 4-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	177 ± 9.1	151 ± 3.7	143 ± 3.3	168 ± 9.3	170 ± 9.4
100.0	158 ± 6.1	156 ± 2.8	160 ± 9.2	155 ± 7.0	153 ± 3.3
333.0	177 ± 10.1	156 ± 1.5	167 ± 11.1	149 ± 10.4	160 ± 4.7
1000.0	186 ± 5.6	155 ± 12.9	170 ± 3.0	165 ± 4.3	162 ± 9.0
3333.0	165 ± 14.6	163 ± 1.2	168 ± 12.5	152 ± 12.8	149 ± 13.9
10000.0	151 ± 11.7	168 ± 6.2	145 ± 4.4	176 ± 4.0	133 ± 14.0
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					453 ± 13.3
Positive Control ³			363 ± 8.9		
Positive Control ⁵				466 ± 18.8	
Positive Control ⁷	361 ± 21.4	461 ± 29.7			

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Test Compound: 4-Methylimidazole

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	176 ± 9.5
100.0	168 ± 10.3
333.0	172 ± 2.2
1000.0	178 ± 4.7
3333.0	165 ± 9.3
10000.0	169 ± 8.7
Trial Summary	Negative
Positive Control ²	
Positive Control ³	487 ± 12.2
Positive Control ⁵	
Positive Control ⁷	

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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	15 ± 0.9	19 ± 0.9	22 ± 1.8	16 ± 1.9	24 ± 1.7
100.0	15 ± 1.8	21 ± 2.0	21 ± 3.1	16 ± 2.4	18 ± 1.8
333.0	20 ± 0.7	23 ± 4.3	18 ± 1.8	18 ± 0.6	20 ± 0.7
1000.0	19 ± 1.2	22 ± 2.9	23 ± 2.3	21 ± 2.6	23 ± 3.0
3333.0	18 ± 1.5	20 ± 2.4	23 ± 1.2	18 ± 0.6	22 ± 0.3
10000.0	15 ± 1.2	22 ± 2.0	21 ± 1.7	14 ± 0.3	18 ± 0.7
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					333 ± 23.3
Positive Control ³			321 ± 16.8		
Positive Control ⁸	337 ± 25.3	349 ± 26.6			
Positive Control ⁵				407 ± 3.4	

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Test Compound: 4-Methylimidazole

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	20 ± 0.7
100.0	19 ± 3.3
333.0	19 ± 3.6
1000.0	20 ± 0.3
3333.0	17 ± 0.3
10000.0	17 ± 1.2
Trial Summary	Negative
Positive Control ²	
Positive Control ³	424 ± 22.5
Positive Control ⁸	
Positive Control ⁵	

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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: Water

2: 1.0 ug/Plate 2-Aminoanthracene

3: 2.0 ug/Plate 2-Aminoanthracene

4: 5.0 ug/Plate Sodium Azide

5: 5.0 ug/Plate 2-Aminoanthracene

6: 10.0 ug/Plate 2-Aminoanthracene

7: 50.0 ug/Plate 9-Aminoacridine

8: 2.5 ug/Plate 4-Nitro-O-Phenylenediamine

**** END OF REPORT ****