

Experiment Number: 327434

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

G06: Ames Summary Data

Test Compound: **Methyl isocyanate**

CAS Number: **624-83-9**

Date Report Requested: **09/12/2018**

Time Report Requested: **16:01:54**

NTP Study Number:

327434

Study Result:

Negative

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Mutagenicity**G06: Ames Summary Data**

Test Compound: Methyl isocyanate

CAS Number: 624-83-9

Date Report Requested: 09/12/2018

Time Report Requested: 16:01:54

Strain: TA100

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 30% Rat S9	With 10% Hamster S9
Vehicle Control ¹	91 ± 3.3	84 ± 4.8	99 ± 5.8	90 ± 5.9	88 ± 8.7
3.3	97 ± 0.6	86 ± 6.4	101 ± 5.4	104 ± 4.6	95 ± 0.9
10.0	85 ± 5.8	78 ± 2.9	99 ± 8.2	103 ± 3.9	91 ± 6.5
33.0	96 ± 9.2	84 ± 9.5	100 ± 2.9	100 ± 11.9	111 ± 7.9
100.0	93 ± 3.0 ^s	94 ± 3.4	118 ± 7.2	97 ± 5.8	126 ± 6.9
200.0	100 ± 3.8 ^s	68 ± 3.2 ^s			
333.0			116 ± 5.3 ^s	94 ± 2.6 ^s	86 ± 4.4 ^s
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ²					540 ± 30.5
Positive Control ³	329 ± 10.2	282 ± 15.4			
Positive Control ⁴			475 ± 14.4		
Positive Control ⁵					
Positive Control ⁶				360 ± 5.9	

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Strain: TA100

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	96 ± 2.3
3.3	91 ± 2.9
10.0	90 ± 1.8
33.0	93 ± 11.1
100.0	101 ± 7.5
200.0	
333.0	89 ± 3.8 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁴	
Positive Control ⁵	389 ± 8.4
Positive Control ⁶	

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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	19 ± 4.6	12 ± 3.0	9 ± 1.2	10 ± 0.6	8 ± 1.5
3.3	17 ± 2.0	9 ± 2.7	9 ± 1.7	9 ± 1.5	9 ± 1.9
10.0	19 ± 0.7	11 ± 2.9	8 ± 1.2	9 ± 1.2	9 ± 2.6
33.0	14 ± 1.7	11 ± 0.0	10 ± 1.2	10 ± 1.2	7 ± 0.3
100.0	12 ± 2.9 ^s	9 ± 3.5	10 ± 0.9	8 ± 2.9	7 ± 0.3
200.0	6 ± 0.0 ^s	5 ± 1.0 ^s			
333.0			5 ± 0.6 ^s	5 ± 1.8 ^s	6 ± 1.2 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ²					104 ± 4.3
Positive Control ³	151 ± 13.6	64 ± 8.0			
Positive Control ⁵					
Positive Control ⁶			196 ± 20.6		
Positive Control ⁷				74 ± 5.5	

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Strain: TA1535

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	10 ± 1.5
3.3	8 ± 0.3
10.0	7 ± 1.7
33.0	8 ± 2.5
100.0	9 ± 0.7
200.0	
333.0	5 ± 1.5 ^s
Trial Summary	Negative
Positive Control ²	
Positive Control ³	
Positive Control ⁵	54 ± 2.2
Positive Control ⁶	
Positive Control ⁷	

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Test Type: Genetic Toxicology - Bacterial
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Test Compound: Methyl isocyanate

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Date Report Requested: 09/12/2018

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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	96 ± 6.4	63 ± 1.2	144 ± 9.7	151 ± 2.2	200 ± 19.7
3.3	90 ± 7.2	74 ± 2.8	147 ± 12.7	161 ± 9.6	211 ± 17.1
10.0	91 ± 3.5	68 ± 5.5	170 ± 9.1	172 ± 3.4	267 ± 9.9
33.0	97 ± 6.8	76 ± 6.1	138 ± 8.7	163 ± 9.5	208 ± 26.1
100.0	85 ± 0.6 ^s	59 ± 4.2	134 ± 6.6	175 ± 6.7	206 ± 6.4 ^s
200.0	77 ± 7.9 ^s	58 ± 1.8 ^s			
333.0			108 ± 8.7 ^s	136 ± 6.1 ^s	106 ± 7.6 ^s
Trial Summary	Negative	Negative	Negative	Negative	Equivocal
Positive Control ⁴					632 ± 17.5
Positive Control ⁶			764 ± 7.0		
Positive Control ⁷				379 ± 4.4	
Positive Control ⁸	1459 ± 37.6	1557 ± 68.7			

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Strain: TA97

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	125 ± 3.4
3.3	130 ± 2.3
10.0	143 ± 3.4
33.0	121 ± 11.9
100.0	132 ± 2.6
200.0	
333.0	105 ± 11.3 ^s
Trial Summary	Negative
Positive Control ⁴	
Positive Control ⁶	
Positive Control ⁷	705 ± 23.7
Positive Control ⁸	

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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 ± 1.7	14 ± 1.9	23 ± 3.7	24 ± 2.1	20 ± 3.2
3.3	16 ± 2.6	15 ± 1.2	25 ± 2.3	22 ± 2.8	24 ± 0.9
10.0	14 ± 2.2	15 ± 0.7	26 ± 1.5	22 ± 1.2	23 ± 2.4
33.0	19 ± 2.2	15 ± 1.5	27 ± 2.7	19 ± 1.3	23 ± 3.0
100.0	23 ± 1.5 ^s	11 ± 1.0 ^s	30 ± 2.9	25 ± 3.1	22 ± 2.0
200.0	14 ± 1.2 ^s	14 ± 0.9 ^s			
333.0			26 ± 4.9 ^s	15 ± 0.3 ^s	23 ± 2.3 ^s
Trial Summary	Negative	Negative	Negative	Negative	Negative
Positive Control ⁹					209 ± 7.8
Positive Control ²			274 ± 25.0		
Positive Control ¹⁰	171 ± 11.9	164 ± 5.2			
Positive Control ⁵				136 ± 9.7	

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Strain: TA98

Dose (ug/Plate)	With 30% Hamster S9
Vehicle Control ¹	22 ± 3.2
3.3	21 ± 2.6
10.0	20 ± 2.9
33.0	17 ± 3.5
100.0	16 ± 0.9 ^s
200.0	
333.0	19 ± 3.3 ^s
Trial Summary	Negative
Positive Control ⁹	
Positive Control ²	86 ± 12.9
Positive Control ¹⁰	
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: Dimethyl Sulfoxide

2: 0.4 ug/Plate 2-Aminoanthracene

3: 0.5 ug/Plate Sodium Azide

4: 0.75 ug/Plate 2-Aminoanthracene

5: 1.0 ug/Plate 2-Aminoanthracene

6: 2.0 ug/Plate 2-Aminoanthracene

7: 2.5 ug/Plate 2-Aminoanthracene

8: 4.0 ug/Plate 9-Aminoacridine

9: 0.2 ug/Plate 2-Aminoanthracene

10: 1.0 ug/Plate 4-Nitro-O-Phenylenediamine

s: Slight Toxicity

**** END OF REPORT ****