

Experiment Number: **G14005**

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

G06: Ames Summary Data

Test Compound: **Dimethyl 1,4-cyclohexanedicarboxylate**

CAS Number: **94-60-0**

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

Time Report Requested: **03:56:41**

NTP Study Number:

G14005

Study Result:

Positive

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Strain: TA100				
Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	72 ± 1.5	82 ± 7.9	82 ± 3.2	97 ± 7.9
500.0		97 ± 8.7		101 ± 11.1
625.0		106 ± 6.2		91 ± 5.9
750.0		99 ± 11.1		91 ± 2.0
1000.0	96 ± 1.2	107 ± 7.2	84 ± 11.0	108 ± 9.0
2000.0	93 ± 4.3	87 ± 10.8	81 ± 2.6	99 ± 3.8
3000.0	86 ± 0.9	95 ± 8.7	82 ± 13.5	93 ± 2.6
4000.0	32 ± 21.0 ^s		77 ± 10.0	
5000.0	Toxic	Toxic	73 ± 8.7	86 ± 5.0
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	535 ± 4.7	589 ± 1.3		
Positive Control ³			621 ± 45.1	705 ± 40.0

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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	17 ± 0.6	20 ± 1.9	16 ± 1.7	23 ± 5.6	23 ± 4.2
500.0		25 ± 2.6	28 ± 1.3		22 ± 1.7
625.0		28 ± 2.5	37 ± 3.5		23 ± 3.6
750.0		30 ± 3.2	40 ± 6.1		31 ± 0.6
1000.0	53 ± 3.5	38 ± 2.9	49 ± 4.8	20 ± 2.1	25 ± 3.2
2000.0	63 ± 3.5	36 ± 3.8	57 ± 3.2	19 ± 1.2	20 ± 2.1
3000.0	66 ± 4.8	36 ± 2.7	39 ± 5.8	20 ± 2.6	18 ± 4.2
4000.0	13 ± 2.0 ^s			25 ± 4.7	
5000.0	Toxic	Toxic	Toxic	35 ± 4.4	20 ± 3.0
Trial Summary	Positive	Equivocal	Positive	Negative	Negative
Positive Control ⁴				1645 ± 66.4	1622 ± 66.7
Positive Control ⁵	462 ± 25.7	405 ± 8.1	553 ± 37.3		

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Strain: E. coli WP2 uvrA pKM101

Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	106 ± 4.7	114 ± 14.0	165 ± 6.7	174 ± 7.0
500.0		134 ± 6.7		175 ± 11.8
625.0		140 ± 7.2		169 ± 10.7
750.0		153 ± 3.0		139 ± 3.8
1000.0	134 ± 8.4	151 ± 7.5	156 ± 10.0	157 ± 4.1
2000.0	205 ± 5.9	206 ± 13.4	139 ± 11.6	137 ± 6.8
3000.0	282 ± 19.8	308 ± 14.2	171 ± 10.8	160 ± 9.8
4000.0	69 ± 11.9 ^s		161 ± 12.7	
5000.0	Toxic	Toxic	151 ± 7.8	152 ± 8.2
Trial Summary	Positive	Positive	Negative	Negative
Positive Control ⁶	1681 ± 45.4	2040 ± 98.5		
Positive Control ⁷			1342 ± 15.4	1466 ± 32.4

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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: 2.0 ug/Plate Other Positive Control

4: 2.0 ug/Plate 2-Aminoanthracene

5: 3.0 ug/Plate 2-Nitrofluorene

6: 0.25 ug/Plate Other Positive Control

7: 20.0 ug/Plate 2-Aminoanthracene

s: Slight Toxicity

**** END OF REPORT ****