

Experiment Number: **G1104ZB**

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

G06: Ames Summary Data

Test Compound: **Cumene**

CAS Number: **98-82-8**

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

Time Report Requested: **03:22:37**

NTP Study Number:

G1104ZB

Study Result:

Negative

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Strain: TA100				
Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	79 ± 5.2	92 ± 7.4	105 ± 9.1	93 ± 13.6
2.56		93 ± 2.5		
6.4		107 ± 2.1		115 ± 23.6
7.8	91 ± 5.8			
15.6	99 ± 6.1		92 ± 9.2	
16.0		84 ± 12.5		94 ± 2.9
31.2	71 ± 5.8		90 ± 3.7	
40.0		84 ± 4.9		101 ± 7.0
62.5	65 ± 5.3		94 ± 3.7	
100.0		48 ± 4.6 ^s		96 ± 5.5
125.0	7 ± 0.9 ^s		78 ± 4.0	
250.0	8 ± 5.5 ^s	13 ± 1.7 ^s	63 ± 10.2 ^s	67 ± 3.5 ^s
500.0			33 ± 0.9 ^s	39 ± 6.4 ^s
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ²	801 ± 15.2	687 ± 14.0		
Positive Control ³			825 ± 9.8	700 ± 27.1

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Strain: TA98				
Dose (ug/Plate)	Without S9	Without S9	With 10% Rat S9	With 10% Rat S9
Vehicle Control ¹	13 ± 1.9	18 ± 3.3	23 ± 2.4	10 ± 1.5
2.56				
6.4		19 ± 4.7		7 ± 1.7
7.8	16 ± 2.7			
15.6	20 ± 2.3		24 ± 1.0	
16.0		18 ± 1.7		13 ± 3.5
31.2	13 ± 3.7		22 ± 3.5	
40.0		15 ± 2.3		12 ± 1.5
62.5	15 ± 2.9		24 ± 0.3	
100.0		13 ± 2.4		10 ± 4.5
125.0	10 ± 2.4 ^s		19 ± 4.7	
250.0	Toxic	9 ± 2.6 ^s	11 ± 2.5 ^s	8 ± 1.2
500.0		13 ± 2.5 ^s	4 ± 1.2 ^s	5 ± 0.9
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁴			1402 ± 111.4	515 ± 86.2
Positive Control ⁵	805 ± 54.3	746 ± 88.0		

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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	142 ± 7.5	142 ± 15.0	140 ± 10.2	135 ± 5.0
6.4		139 ± 5.4		145 ± 10.3
15.6	119 ± 5.8		138 ± 1.2	
16.0		123 ± 3.2		129 ± 4.2
31.2	145 ± 10.3		149 ± 14.8	
40.0		119 ± 20.4		136 ± 6.7
62.5	107 ± 3.4		162 ± 2.1	
100.0		76 ± 6.8 ^s		133 ± 15.1
125.0	87 ± 10.7 ^s		140 ± 5.5	
250.0	10 ± 4.5 ^s	83 ± 14.0 ^s	118 ± 9.9	102 ± 7.4
500.0	Toxic	Toxic	32 ± 3.5 ^s	30 ± 5.3 ^s
Trial Summary	Negative	Negative	Negative	Negative
Positive Control ⁶	1821 ± 19.5	1455 ± 32.6		
Positive Control ⁷			1206 ± 33.2	957 ± 2.6

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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: 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 ****