# BIOTECH TESTING SERVICES

## TEST REPORT

| | |
|---|---|
| **LAB NO. : 6616/ 1 - 2** | **DATE: 14/02/2015** |

**NAME OF CUSTOMER** : M/S. CEDAR DÉCOR PRIVTAE LIMITED

**ADDRESS** : F-24/B, Shapath-1, opp. Rajpath Club,
S.G. Highway, Ahmedabad – 380 015

**REFERENCE** : Letter Ref. dated February 05, 2015
Kind Attention: Anuja Sharma

**DATE OF RECEIPT** : 05/02/2015

**DATE OF INITIATION** : 07/02/2015

**DATE OF COMPLETION** : 12/02/2015

**SAMPLE DESCRIPTION** : LAMINATE SAMPLE

1. TREATED
2. UNTREATED

---

**Name of Test:**

Evaluation of Antimicrobial Activity of Plastic specimen

**Name of Test Protocol:**

JIS Z 2801: 2010

**Test Organisms used for evaluating Antimicrobial activity:**

1. Staphylococcus aureus ATCC 6538
2. Escherichia coli ATCC 8739

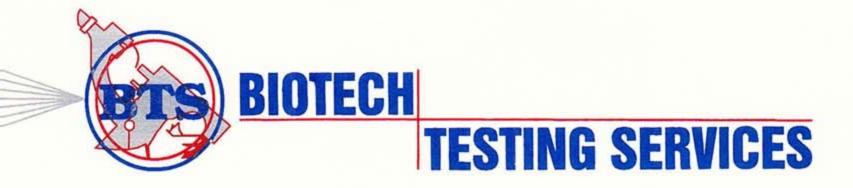**Test Conditions:**

Neutraliser used       : DE broth

Contact Time          : 24 hours at $37^0$ C

Incubation Temperature : $37^0$ C for Bacteria

Media and Reagent     : Soyabean-casein digest

## RESULTS:

**ANTIBACTERIAL ACTIVITY**

1. Test Bacteria: Staphylococcus aureus ATCC 6538

| Quantitative Assessment of Activity - JIS Z 2801: 2010 | | | | |
|---|---|---|---|---|
| **UNTREATED**: Conc. of Inoculum on untreated sample at 0 hours (A): $1.78 \times 10^5$ | | | | Log = 5.25 |
| **UNTREATED**: Conc. of Inoculum on untreated sample after 24 hour (B) : $7.80 \times 10^5$ | | | | Log = 5.89 |
| Sample Identification | No. Bacteria on treated sample (C) | Log of Bacteria on treated sample | Antimicrobial Activity (R) (Log B-C) | Microbial Kill (% Reduction) |
| **TREATED** | 700 | 2.84 | **3.05** | **99.91** |

2. Test Bacteria: Escherichia coli ATCC 8739

| Quantitative Assessment of Activity - JIS Z 2801: 2010 | | | | |
|---|---|---|---|---|
| **UNTREATED**: Conc. of Inoculum on untreated sample at 0 hours (A): $2.04 \times 10^5$ | | | | Log = 5.30 |
| **UNTREATED**: Conc. of Inoculum on untreated sample after 24 hour (B) : $2.20 \times 10^6$ | | | | Log = 5.34 |
| Sample Identification | No. Bacteria on treated sample (C) | Log of Bacteria on treated sample | Antimicrobial Activity (R) (Log B-C) | Microbial Kill (% Reduction) |
| **TREATED** | 1420 | 3.15 | **2.19** | **99.35** |

EE

**The Standard Antimicrobial value of Evaluation R $\geq$ 2.0**

**COMMENT:**

When tested as specified, laminate sample labeled **TREATED**; **PASSES** the Quantitative Assessment of Activity for Staphylococcus aureus and Escherichia coli by **JIS Z 2801: 2010 Test Method.**

For BIOTECH TESTING SERVICES

Dr Shilpa U. Nair
Quality Manager
(Authorized Signatory)