

TEST REPORT

LAB NO. : 7293/ 1

DATE: 06/07/2015

NAME OF CUSTOMER : M/S. ASHUTOSH FIBRE PVT. LTD.

ADDRESS : 11-B, New Cloth Market,
Ahmedabad – 380 002, Gujarat

REFERENCE : Letter Ref. CRS/AFPL/BTS/267 dated June 29, 2015

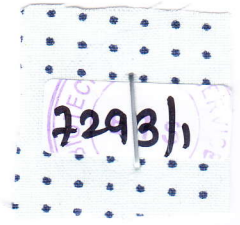
DATE OF RECEIPT : 30/06/2015

DATE OF INITIATION : 30/06/2015

DATE OF COMPLETION : 06/07/2015

SAMPLE DESCRIPTION : 100% COTTON FABRIC SAMPLE - (SAMPLES ATTACHED)

1. **Bed Sheet Fabric**
Untreated – Lab Control



Name of Test:

Evaluation of Antimicrobial Activity by JIS L 1902: 2008 – **Quantitative Absorption Method**

ANTIBACTERIAL ACTIVITY

1. Test Bacteria: **Staphylococcus aureus ATCC 6538**

Quantitative Assessment of Activity - JIS L 1902: 2008				
UNTREATED FABRIC: Concentration of Inoculum (Ma): 9.70×10^4				Log = 4.98
UNTREATED FABRIC: Concentration after 18 hour incubation (Mb): 4.20×10^6				Log = 6.62
Growth Value (F= Mb-Ma): 1.64				
Sample Identification	No. Bacteria Recovered	Log Bacteria Recovered (Mc)	Bacteriostatic Activity (S) = Mb – Mc	Percentage Reduction of Bacteria
Bed Sheet Fabric	180	2.25	4.37	99.99



2. Test Bacteria: *Klebsiella pneumoniae* ATCC 4352

Quantitative Assessment of Activity - JIS L 1902: 2008				
UNTREATED FABRIC: Concentration of Inoculum (Ma): 1.03×10^5				Log = 5.01
UNTREATED FABRIC: Concentration after 18 hrs. incubation (Mb): 4.60×10^6				Log = 6.66
Growth Value (F= Mb-Ma): 1.65				
Sample Identification	No. Bacteria Recovered	Log Bacteria Recovered (Mc)	Bacteriostatic Activity (S) = Mb - Mc	Percentage Reduction of Bacteria
Bed Sheet Fabric	620	2.79	3.87	99.98

The Standard Antimicrobial value of Evaluation = $S \geq 2.0$

Where-

Ma=Logarithm of Concentration of Starting bacterial inoculum (CFU/ml)

Mb=Logarithm of number of bacteria after 18 hour incubation on untreated sample (Average of 3 specimens)

Mc=Logarithm of number of bacteria after 18 hour incubation on treated sample (Average of 3 specimens)

COMMENT:

When tested as specified, Fabric samples labeled **Bed Sheet Fabric**; **PASSES** the Quantitative Assessment of Activity for *Staphylococcus aureus* and *Klebsiella pneumoniae* by **JIS L 1902: 2008 Test Method**.

For BIOTECH TESTING SERVICES



Dr Shilpa U. Nair
Quality Manager
(Authorized Signatory)