



BIOTECH TESTING SERVICES

TEST REPORT

LAB NO. : 2102019/ 1 -2

DATE: 05/07/2021

NAME OF MANUFACTURING UNIT: M/S SHIRDI INDUSTRIES LTD.

ADDRESS : Plot No.9, Sector-01, IIE, SIDCUL, Pantnagar
Rudrapur, Distt. Udham Singh Nagar- 263153
Uttarakhand

REFERENCE : Letter Ref: Nil dated June 28, 2021
Kind Attention: Pradeep Asati

DATE OF RECEIPT : 28/06/2021

DATE OF INITIATION : 28/06/2021

DATE OF COMPLETION : 05/07/2021

SAMPLE DESCRIPTION : Laminate Sample labeled as -

Sr. No.	Sample Code	Other details
1.	ASIS LAM Anti – Bacterial High Pressure Decorative Laminates Design No 1002; Finish - Suede; Thickness - 1.00	Treated
2.	ASIS LAM High Pressure Decorative Laminates Design No 1002; Finish - Suede; Thickness - 1.00	Untreated
Untreated lab control		

Name of Test:

Evaluation of Antimicrobial Activity of laminate Sample

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 : Buffered Saline with Tween 80 - 0.01 %
Contact Time : 24 hours at 37⁰ C
Incubation Temperature : 37⁰ C for Bacteria
Media and Reagent : Soyabean-casein digest agar for Bacteria

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Results:

ANTIBACTERIAL ACTIVITY

1. Test Bacteria: Staphylococcus aureus ATCC 6538

Quantitative Assessment of Activity - JIS Z 2801: 2010				
Untreated lab control : Conc. of Inoculum on untreated sample at 0 hours (A): 1.60×10^5				Log = 5.20
Untreated lab control: Conc. of Inoculum on untreated sample after 24 hour (B): 1.86×10^6				Log = 6.26
Sample Identification	No. Bacteria on treated sample (C)	Log of Bacteria on treated sample	Antimicrobial Activity (R) (Log B-C)	Microbial Kill (% Reduction)
ASIS LAM Anti – Bacterial High Pressure Decorative Laminates Design No 1002; Finish - Suede; Thickness - 1.00 Treated	<10	<1	>5.26	>99.99
ASIS LAM High Pressure Decorative Laminates Design No 1002; Finish - Suede; Thickness - 1.00 - Untreated	450	2.65	3.61	99.97

2. Test Bacteria: Escherichia coli ATCC 8739

Quantitative Assessment of Activity - JIS Z 2801: 2010				
Untreated lab control: Conc. of Inoculum on untreated sample at 0 hours (A): 1.80×10^5				Log = 5.25
Untreated lab control: Conc. of Inoculum on untreated sample after 24 hour (B): 1.95×10^6				Log = 6.29
Sample Identification	No. Bacteria on treated sample (C)	Log of Bacteria on treated sample	Antimicrobial Activity (R) (Log B-C)	Microbial Kill (% Reduction)
ASIS LAM Anti – Bacterial High Pressure Decorative Laminates Design No 1002; Finish - Suede; Thickness - 1.00 Treated	90	1.95	4.34	99.99
ASIS LAM High Pressure Decorative Laminates Design No 1002; Finish - Suede; Thickness - 1.00 - Untreated	1500	3.17	3.12	99.92

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



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COMMENT:

When tested as specified, Laminate sample labeled as **ASIS LAM Anti – Bacterial High Pressure Decorative Laminates Design No 1002; Finish - Suede; Thickness - 1.00 Treated** and **ASIS LAM High Pressure Decorative Laminates Design No 1002; Finish - Suede; Thickness - 1.00 - Untreated**; **PASS** 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)

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