



**BIOTECH TESTING SERVICES LLP**



NABL Scope



TC - 8484

## TEST REPORT

REPORT NO. : BTS2500664-01

DATE : 03-04-2025

ULR NO. : TC848425100000291F

**NAME OF CUSTOMER** : RUSHIL DECOR LIMITED  
**ADDRESS** : S. NO 125  
Near kalyanpura Patia, Village ITLA Gandhinagar- Mansa Road, Ta Kalol  
Gandhinagar-38285  
Gujarat, INDIA  
**REFERENCE** : Reference Letter No. Nil dated March 04, 2025  
Kind Attention: Dhaval  
**DATE OF RECEIPT** : 05-03-2025  
**DATE OF INITIATION** : 05-03-2025  
**DATE OF COMPLETION** : 03-04-2025  
**SAMPLE DESCRIPTION** : Test sample labeled as

Sample No.	Sample Details
2500664/S01	<b>Sample-1</b>
	<i>Description</i> <i>Antibacterial sample</i>

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• Samples are not drawn by the laboratory • Results relate only to the samples tested  
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**Name of Test :**

ASTM G 21 - 21

Determining Resistance of Synthetic Polymeric Materials to Fungi

**Test Organisms :**

1. Mixed Spores Suspension

**Experimental Conditions**

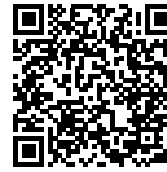
Sample Size	: 50 mm x 50 mm
No of replicates	: Three
Viability Control	: Sterile Filter paper
Media used	: Nutrient Salt agar
Incubation Temperature	: 28°C ± 1°C
Humidity	: >85% Relative Humidity
Duration of Exposure	: 28 days

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### Procedure:

Specimens of size 50 mms x 50 mms were placed on Nutrient salt agar. Composite spore suspension as listed below was sprayed on specimen. The Nutrient salt agar provides all of the trace nutritional elements needed by Fungi except Carbon source. Fungus grows only when it is able to use polymeric material as Primary carbon source. Inoculated samples were incubated and examined for fungal growth. Temperature and humidity were maintained for the duration of the test. Adequate positive and Negative controls were also included along with specimen.

Mixed spore suspension of -

1. Aspergillus niger ATCC 9642
2. Penicillium pinophilum ATCC 11797
3. Gliocladium virens ATCC 9645
4. Chaetobium globosum ATCC 6205
5. Aurobasidium pullulans ATCC 15233

### Results:

Observations were made on weekly basis for appearance for the density of fungal growth. The filter paper control pieces had copious fungal growth at 2 weeks.

At 4<sup>th</sup> week, samples were rated "0" or "1" were examined microscopically to confirm the Ratings

Rating scale for the test is as follows:

Growth on specimen	Rating
None	0
Trace of Growth (< 10 %)	1
Light Growth (10 to 30 %)	2
Medium Growth (30 to 60 %)	3
Heavy Growth (60% to complete coverage)	4

Sample Identification	Duration of the test				
	Replicates	Week 1	Week 2	Week 3	Week 4
2500664/S01	Set I	0	0	0	0
	Set II	0	0	0	0
	Set III	0	0	0	0
Control	-	1	2	3	4

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**COMMENT:**

Test sample labeled as **Antibacterial sample** is **Resistant to fungal attack** at the end of 28 days of incubation when tested as per specified method.

\*\*\*\*\* End of Report \*\*\*\*\*



**For Biotech Testing Services LLP**



Dr. Shilpa U Nair  
Quality Manager  
(Authorized Signatory)



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Annexure

2500664/S01	2500664/S01
