

Report of Analysis



Intertek India Private Limited

"F" wing Tex Centre,
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Off. Saki Vihar Road, Andheri (East)
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Report No.: MUM/000784A/2026-02		Report Date: 23/04/2026	
Customer Name:	LUMBINI CERAMICS LIMITED		
Contact Person:	Rupak Paudel		
Address:	4th floor, Lal Darbur, One Naryanhiti path		
	Darbur Marg Kathmandu, Nepal, Zipcode:44600		
Sample submitted as:	15 Pcs Poly Pack x 1		
Description on label/Sample Bottle:	DELH26002539 - TILES - S-1 (Laminar – Ceramic Fully Vitrified Tiles) DELH26002539 - TILES - S-5 (Control sample)		

Sample Number	20451908 / 912	Date of Sample Received:	19/02/2026
Date of Job started:	26/02/2026	Date of Job Completed:	09/03/2026

ULR No.	TC121412600000784F	Discipline:	Biological	Group:	Biological- Antimicrobial Activity
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NABL ACCREDITED PARAMETERS

METHOD : JIS Z 2801 (Equivalent to ISO 22196)

Sr. No.	Title	Antibacterial products – Test for antibacterial activity and efficacy
1	Type , Size, Shape & Thickness of Antibacterial treated test piece	DELH26002539 - TILES - S-1, 5 x 5 cm square, 7.0 mm
2	Type , Size, Shape & Thickness of Un-treated test piece	DELH26002539 - TILES - S-5 (Control), 5 x 5 cm square, 7.0 mm
3	Type, Size, Shape of Film	Polyethene Film of 4 x 4 cm square, <1mm
4	Number of viable bacteria in test inoculum	<i>S. aureus</i> ATCC 6538P 2.23 x 10 ⁶ CFU/ml
		<i>E. coli</i> ATCC 8739 2.01 x 10 ⁶ CFU/ml
5	Volume of test inoculum inoculated	0.1 ml
6	Volume of SCDLP broth used for washing out	10 ml

1. Test Validity: Untreated samples at 0 hours

Test Bacteria	<i>Staphylococcus aureus</i> ATCC 6538P	<i>Escherichia coli</i> ATCC 8739
Maximum logarithm number of viable bacteria (Lmax)	4.18	4.13
Minimum logarithm number of viable bacteria (Lmin)	4.10	4.03
Average of logarithm number of viable bacteria of three test pieces (Lmean)	4.14	4.08
Logarithmic value of number of viable bacteria untreated sample at 0 hours (Lmax- Lmin)/ Lmean	0.02	0.02
Criteria for (Lmax- Lmin)/ Lmean should be ≤ 0.2	Valid	Valid
Acceptance criteria: R is ≥ 2.0	Valid	Valid

Note : The results reported relate to the sample tested only. Latest version of designated test methods has been used wherever it requires. The Test Certificate shall not be reproduced in full or part without the written permission of INTERTEK. The sample(s) has been not drawn/sampled by INTERTEK LAB. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and / or shipment and only relate to the sample(s) as received and tested. This report was prepared solely for the use of the client named in this report. Intertek disclaims any and all liability for damage or injury which results in the use of the information contained herein and accepts no responsibility for any loss, damage or liability suffered by a third party as a result of any reliance upon or use of this report. All jobs are performed as per Intertek terms & Conditions available at <http://www.intertek.com/terms/> or can be made available on request.

QF No: IPL/17025/QF/7.8/01	Issue No: 03	Issue Date :01.03.2024	Amendment No: 00	Amendment Date: 00.00.0000
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NABL ACCREDITED PARAMETERS**1. Test Bacteria: S. aureus ATCC 6538P**

UNTREATED: Conc. of Inoculum on untreated sample at 0 hours (A): 13729		Log = 4.14
UNTREATED: Conc. of Inoculum on untreated sample after 24 hour (B): 11083		Log = 4.04
No. Bacteria on treated sample (C)	Log of Bacteria on treated sample	Antimicrobial Activity (R) (Log B-C)
2.92	0.46	3.58

2. Test Bacteria: E Coli ATCC 8739

UNTREATED: Conc. of Inoculum on untreated sample at 0 hours (A): 12250		Log = 4.09
UNTREATED: Conc. of Inoculum on untreated sample after 24 hour (B): 10375		Log = 4.02
No. Bacteria on treated sample (C)	Log of Bacteria on treated sample	Antimicrobial Activity (R) (Log B-C)
2.92	0.46	3.58

Conclusion: The above submitted sample shows antibacterial activity, when tested as per JIS Z 2801.

Note: - Testing Performed under ISO/IEC 17025 accredited scope

Authorized Signatory

Yogesh Mali
 Deputy Manager Microbiology

----- End of Report -----

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