

TEST REPORT

LAB NO. : 2102401/ 1 - 2

DATE: 05/08/2021

NAME OF CUSTOMER : M/S. KUMARAPPA NATIONAL HANDMADE PAPER INSTITUTE
ADDRESS : Ramsinghpura, Sikarpura Road
Sanganer, Jaipur-302017
REFERENCE : Your Letter Ref: KNHPI/ Paint/ 20 21- 22/ 220 dated July 23, 2021
Kind Attention: Dr Saakshy
DATE OF RECEIPT : 27/07/2021
DATE OF INITIATION : 28/07/2021
DATE OF COMPLETION : 05/08/2021
SAMPLE DESCRIPTION : Paint specimen labeled as -

Sr. No.	Sample Code
1.	Prakritik Paint Eco-Friendly cow dung Paint Distemper
2.	Prakritik Paint Eco-Friendly cow dung Paint Emulsion
Untreated lab control	

Name of Test:

Evaluation of Antimicrobial Activity of Paint 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:

Neutralizer 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

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): 6.90×10^4				Log = 4.83
Untreated lab control : Conc. of Inoculum on untreated sample after 24 hour (B): 1.03×10^5				Log = 5.01
Sample Identification	No. Bacteria on treated sample (C)	Log of Bacteria on treated sample	Antimicrobial Activity (R) (Log B-C)	Microbial Kill (% Reduction)
Prakritik Paint Eco-Friendly cow dung Paint Distemper	290	2.46	2.55	99.71
Prakritik Paint Eco-Friendly cow dung Paint Emulsion	150	2.17	2.84	99.85

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): 8.90×10^4				Log = 4.94
KOA PE - Untreated : Conc. of Inoculum on untreated sample after 24 hour (B): 1.71×10^5				Log = 5.23
Sample Identification	No. Bacteria on treated sample (C)	Log of Bacteria on treated sample	Antimicrobial Activity (R) (Log B-C)	Microbial Kill (% Reduction)
Prakritik Paint Eco-Friendly cow dung Paint Distemper	890	2.94	2.29	99.47
Prakritik Paint Eco-Friendly cow dung Paint Emulsion	550	2.74	2.49	99.67

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

COMMENT:

When tested as specified, Paint Sample labeled as **Prakritik Paint Eco-Friendly cow dung Paint Distemper** and **Prakritik Paint Eco-Friendly cow dung Paint Emulsion**; **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)