TEST REPORT

REPORT NO. : BTS2602742-03	**DATE : 09-10-2026**
ULR NO. : TC848426000001856F	

NAME OF CUSTOMER	:	GREENLAM LIMITED
ADDRESS	:	PLOT NO.19 , 19A & 19A-1 IP Naidupet Menakuru Village, Naidupet Mangal Tirupati-524421 Andhra Pradesh, India
REFERENCE	:	Reference Letter No. Nil dated September 04, 2026 Kind Attention: Vishwanath Ramesh
DATE OF RECEIPT	:	07-09-2026
DATE OF INITIATION	:	07-09-2026
DATE OF COMPLETION	:	26-09-2026
SAMPLE DESCRIPTION	:	Sample Labeled as:-

Sample No.	Sample Details
2602742/S02	**HMR Plain Particle Board**

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104/105/205/206, Malwa, Patanwala Ind. Estate, L.B.S Marg, Ghatkopar (West), Mumbai-400086, India. Tel: +91-22-25002812 / 45226627
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Name of Test :

ISO 21702: 2019
Measurement of Antiviral activity on plastics and other non-porous surfaces and coating materials

Scope of Method:

This test specifies method for measuring antiviral activity on plastic and other non-porous surface of antiviral-treated products against specified virus. Due to individual sensitivities, the results of one test virus might not be applicable for other viruses.

Determination of Infectious titre:

TCID50 method

Virus strains and host cells

Test Virus	:	Influenza A virus (H3N2): A/Hong Kong/8/68: ATCC VR-1679
Host Cell	:	MDCK cell ATCC CCL-34
Passage No	:	84

Experimental Conditions

Test Sample	:	Sample surface (50 mm x 50 mm); Pre-sterilized by ETO
Control Sample	:	LDPE film (40 mm x 40 mm); Pre-sterilized by ETO
Test procedure	:	Triplicates
Virus inoculum volume	:	0.4 ml
Viral titre	:	10^8 PFU/ ml
Contact Period	:	24 hours
Wash out Medium	:	Soybean casein digest broth with lecithin and polyoxyethylene sorbtian monooleate (SCDLP Broth)
Infectivity Test	:	TCID50 method
Medium of Cell culture	:	Eagle's minimal essential medium (EMEM), supplemented with 10% inactivated FBS
Viral Growth Medium	:	Eagle's minimal essential medium (EMEM), supplemented with TPCK - Trypsin
Incubation	:	37°C and 5% Carbon dioxide for 5 days

Verification of cytotoxicity on Host cells:

1. Sterile Control and Test samples were added with 10 ml wash out solution, SCDLP medium. To ensure that the neutralizer completely washes the specimens, SCDLP broth was pipetted at least four times.
2. 0.1 ml of the washing out solution was inoculated into 6 well plate having monolayer of host cells in duplicates.
3. It was incubated at 34^0C for 2-3 days.
4. After incubation, plates were examined visually for cytotoxic effect if any.

Observations

Sample Description	Observations
2602742/S02 - HMR Plain Particle Board	Non cytotoxic

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Verification of cytotoxicity by cell sensitivity to virus and the inactivation of antiviral activity:

1. Sterile Control and Test samples were added with 10 ml wash out solution, SCDLP medium. To ensure that the neutralizer completely washes the specimens, SCDLP broth was pipetted at least four times.
2. The washing out solution was inoculated with virus suspension and incubated at 25^0C for 30 minutes.
3. Infective titre of this solution was determined by TCID50 Method.
4. Log of TCID50/ ml of Control LDPE film - Log of TCID50/ ml of Test LDPE film $\leq$0.5.

Observations

Log of TCID50/ ml of Control LDPE film	Log of TCID50/ ml of Test Sample	Log of TCID50/ ml of Control LDPE film - Log of TCID50/ ml of Test Sample	Acceptable Criteria
2.13	2.04	0.09	≤ 0.5

Test Procedure:

1. 0.4 ml of the test inoculum was added onto the test surface. It was covered with LDPE film to ensure that the test inoculum makes contact with test surface and spreads to the edges.
2. After the specimen was inoculated and the cover film applied, It was closed with the lid of the Petri dish and incubated at 35 ± 1°C and a relative humidity of not less than 90 % for 5 minutes.
3. Immediately after inoculation, the three Control sample were terminated using SCDLP medium to retrieve the virus.
4. After the specified contact time, remaining Control and Test samples were terminated using SCDLP medium to retrieve the virus.
5. Infectivity titer of virus recovered from the sample was determined by TCID50 method.

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Results:

Test Virus : Influenza A virus (H3N2): A/Hong Kong/8/68: ATCC VR-1679

1. Test Sample : 2602742/S02 - HMR Plain Particle Board

Virus	No of replicates	Log of Infectivity titre value Control (U_0) ($TCID_{50}$/ cm^2) (Immediately after Inoculation of Control)	Log of Infectivity titre value Control (U_t) ($TCID_{50}$/ cm^2) (After 24 hours of contact with Control)	Log of Infectivity titre value Test (A_t) (After 24 hours of contact with Test Specimen)
suspension:(1.5×10^{8}) PFU/ml	Set I	5.30	5.05	<0.30
	Set II	5.55	5.17	<0.30
	Set III	5.42	5.30	<0.30
Average titre Infectivity of virus (lgTCID50/ cm^2)		5.42	5.17	<0.30
Antiviral activity R= U_t - A_t (24 hours contact)		>4.88		
Percentage Antiviral activity R= U_t - A_t (24 hours contact)		>99.99		

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

BIOTECH TESTING SERVICES LLP BTS LLP MUMBAI

For Biotech Testing Services LLP

Dr. Shilpa U Nair
Quality Manager
(Authorized Signatory)

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Annexure

2602742/S02


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