Vartest Laboratories

Quality Assurance & Compliance Testing
Utilizing Textile & Related Technologies
19 West 36th Street, 10th Floor
New York, NY 10018
Tel: 212 947 8391 Fax: 212 947 8719

www.vartest.com

ISO/IEC 17025 Certified Third Party Test Report

DATE ISSUED: April 7, 2020
DATE REVISED: April 9, 2020

FILE: CLEANB.A040620A

CLIENT: CleanBrands, LLC
501 Centerville Road, Ste 203
Warwick, RI 02886

ATTN: Andrew Walters

SAMPLE IDENTIFIED BY CLIENT AS:

Fabric Submitted
Manufacturer: CleanBrands
Name: CleanRest PRO
Style: MicronOne A: Waterproof Breathable Sleep Surface Fabric
Color Optic White

DOUBLE RED LABEL

TEST PROCEDURES:

WATER RESISTANCE - IMPACT PENETRATION TEST (AATCC 42):
****

TEST RESULTS:

WATER AGAINST FACE OF FABRIC
****
0.05 g average water penetration

HYDROSTATIC PRESSURE TEST OPTION 2: HYDROSTATIC HEAD TESTER (AATCC 127):

Specimen 1: 6517.8 mm
Specimen 2: 6395.4 mm
Specimen 3: 7109.4 mm
Specimen 4: 6691.2 mm
Specimen 5: 6630.0 mm
Average: 6668.8 mm

RESISTANCE OF MATERIALS IN PROTECTIVE CLOTHING TO PENETRATION BY SYNTHETIC BLOOD (ASTM F1670-B):

Sample	Result
A	Pass

COMMENT: Uniform results in triplicate.

Vartest Laboratories

Quality Assurance & Compliance Testing
Utilizing Textile & Related Technologies
19 West 36th Street, 10th Floor
New York, NY 10018
Tel: 212 947 8391 Fax: 212 947 8719

www.vartest.com

ISO/IEC 17025 Certified Third Party Test Report

FILE: CLEANB.A040620A
SAMPLE IDENTIFIED BY CLIENT AS:
Fabric Submitted
Manufacturer: CleanBrands
Name: CleanRest PRO
Style: MicronOne A: Waterproof Breathable Sleep Surface Fabric
Color Optic White

VIRAL PENETRATION, RESISTANCE OF MATERIALS USED IN PROTECTIVE CLOTHING TO PENETRATION BY BLOODBORNE PATHOGENS (ASTM F1671), PROCEDURE B, USING NYLON MESH RETAINING SCREEN:

Viral penetration was tested for using a ϕX174 bacteriophage suspension for 60 minutes. At the end of the test, the observed side of the test sample was rinsed with sterile medium and assayed for the presence of ϕX174 bacteriophage.

Executive Summary

Compatibility ratio for A tested in triplicate was 1.07 (i.e., exposure of virus to the test sample for 1 h did not affect the virus titer)

Settle plates (two from hood and two from bench) showed no plaques, indicating the absence of aerosol bacteriophage spread. Testing of test cells before exposure to virus was uniformly negative for virus showing the absence of test cell contamination.

Test Article (each in triplicate)	pre-challenge (PFU[a]/ml)	post-challenge (PFU/ml)	Test Cell Wash (5ml) bacteriophage penetration (PFU/ml)	Visual penetration	Test Result
A	3.0×10^8	3.2×10^8	0	No	Pass
Impermeable control	3.0×10^8	3.0×10^8	0	No	Pass
Permeable control	3.0×10^8	3.0×10^8	>200	Yes	Fail (expected)

[a] PFU: plaque-forming units

Signed For The Company By

Joseph Lin
Laboratory Manager

VARTEST LABORATORIES Tested & Evaluated

Stacy Sadowy
Quality Assurance Manager

JG/04...JG/04