



# THE SOUTH INDIA TEXTILE RESEARCH ASSOCIATION

CENTRE OF EXCELLENCE FOR MEDICAL TEXTILES

Mechanical, Chemical & Biological Testing Laboratories

ISO/IEC 17025 NABL ACCREDITED VIDE CERTIFICATE NO. TC-6944



TC-6944



## TEST REPORT

|                 |                              |                         |               |              |
|-----------------|------------------------------|-------------------------|---------------|--------------|
| Test Report No  | : M2300011                   | ULR: TC694423700002168F | Report Date   | : 10-04-2023 |
| SITRA Ref No    | : XXVII / M / E / 22664 / 23 |                         | No of Samples | : 1          |
| Customer Ref No | : Letter Dt.25.03.2023       |                         | Received On   | : 04-04-2023 |

To

**Cephas Medical Pvt Ltd**

DP 33,34, SIDCO Industrial Estate

(Urban) Alagapuri Road

Viruthunagar, Tamil Nadu, India

Pincode : 626103

Contact No(s) : 8667813849

Tested on: 04.04.2023

Dear Sir / Madam,

This has reference to the sample(s) submitted by you for testing vide your Letter reference no :

**Letter Dt.25.03.2023.**

The results pertaining to your sample(s) are enclosed herewith.

Authorised by,

(Dr. R. Radhai)

Inward No : M2300011 Access Code : 42483

Please login to [sitraonline.org.in](http://sitraonline.org.in) to view the test results and download machine printout pdf(s).

This is a computer generated report, hence does not require signature.

### IMPORTANT

This report is strictly CONFIDENTIAL. Its use for publicity, arbitration or as evidence in legal disputes is forbidden. Reference of sample(s) given by the party. Samples are not drawn by the laboratory. The above results are related to the samples tested. The report shall not be reproduced except in full, without the written approval of the laboratory. Authenticity of the report may be verified from our website [www.sitraonline.org.in](http://www.sitraonline.org.in)

13/37, Avinashi Road, Aerodrome Post, Coimbatore - 641 014, INDIA

GSTIN: 33AAAAT3433H1ZT

Phone : (0422) 2574367-9, 4215333, Fax: (0422) 2571896, 4215300, Email: [coemed@sitra.org.in](mailto:coemed@sitra.org.in), Website: [www.sitrameditech.org.in](http://www.sitrameditech.org.in), [www.sitra.org.in](http://www.sitra.org.in)

CoE Physics Lab: Ph : Ext. 349, Email: [coephy@sitra.org.in](mailto:coephy@sitra.org.in), CoE Polymer Lab: Ph : Ext. 336, Email: [sitrameditech@sitra.org.in](mailto:sitrameditech@sitra.org.in)

CoE Biology Lab: Ph : Ext. 323,373, Email: [coebio@sitra.org.in](mailto:coebio@sitra.org.in), CoE Training & Incubation : Ph:Ext. 369, Email: [techtextrg@sitra.org.in](mailto:techtextrg@sitra.org.in)

One stop solution for all your Medical Textile Services!



Test Report No : M2300011

ULR: TC694423700002168F

Report Date : 10-04-2023

Cephas Medical Pvt Ltd

Ref : Letter Dt.25.03.2023

**Test Name :** ISO 16604 Viral penetration resistance test CLOTHING FOR PROTECTION AGAINST CONTACT WITH BLOOD AND BODY FLUIDS - DETERMINATION OF RESISTANCE OF PROTECTIVE CLOTHING MATERIALS TO PENETRATION BY BLOOD-BORNE PATHOGENS - TEST METHOD USING PHI-X 174 BACTERIOPHAGE

**Test Condition:**

Test Organisms used : Bacteriophage phi x 174 B1 [ATCC 13706], *Escherichia coli* ATCC 13706  
Inoculum size :  $2 \times 10^8$  PFU/mL  
Sample conditioning :  $21 \pm 5^\circ\text{C}$  and 65 % RH  
Test article sealed : Paraffin Wax  
No. of test articles tested : 3  
No. of test articles passed : 3  
Media used : Bacteriophage Nutrient agar  
Incubation conditions :  $37^\circ\text{C}$  for 24 h  
Retaining screen : A(Without Retaining screen)  
Exposure procedure : 14 KPa(Procedure B)  
Test article side tested : Face side  
Test article preparation : Sample tested randomly  
Compatibility ratio : <5  
Settle plate results : Acceptable  
Average Thickness of Fabric [mm] : 0.50  
Average mass / unit area of material : 54.3  
tested

**Observation :**

| Test Parameter            | M2300011-1                                                      |                                             |                         |                       |                |
|---------------------------|-----------------------------------------------------------------|---------------------------------------------|-------------------------|-----------------------|----------------|
|                           | Described by the customer : 18 Inch long nitrile unlined gloves |                                             |                         |                       |                |
|                           | Pre - Challenge<br>Assay Titer<br>PFU / ml                      | Post - Challenge<br>Assay Titer<br>PFU / ml | Assay Titer<br>PFU / ml | Visual<br>Penetration | Interpretation |
| Positive Control          | $1.1 \times 10^9$                                               | $1.0 \times 10^9$                           | $2.7 \times 10^1$       | No                    | Acceptable     |
| Negative Control          | $1.1 \times 10^9$                                               | $1.0 \times 10^9$                           | <1                      | No                    | Acceptable     |
| 20                        | $1.1 \times 10^9$                                               | $1.0 \times 10^9$                           | <1                      | No                    | Pass           |
| Thickness of Fabric [mm]  | 0.49                                                            | 0.52                                        | 0.51                    |                       |                |
| Mass / unit area - Fabric | 54.9                                                            | 54.1                                        | 53.9                    |                       |                |

**Result :** : The test sample Passed in viral penetration resistance test when tested according to ISO 16604 test method

- End of Report -