

**TEST REPORT**

LAB NO. : 2002606/ 1

DATE: 04/08/2020

**NAME OF CUSTOMER** : M/S KRUSHA ENTERPRISES LLP  
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**REFERENCE** : Letter Ref. No.: Nil dated June 23, 2020  
K. Attention: Mr. Kruti Adnani  
**DATE OF RECEIPT** : 30/07/2020  
**DATE OF INITIATION** : 30/07/2020  
**DATE OF COMPLETION** : 04/08/2020  
**SAMPLE DESCRIPTION** : MASK SAMPLE LABELED AS: -

Sr. No.	Description
1.	Virus Shield (SW) – Knitted fabric & SMMS filter by Tevero





## BIOTECH TESTING SERVICES

**Name of Test:**

Bacterial Filtration Efficiency (BFE) of Medical Face Mask Sample Materials, using a Biological Aerosol of Staphylococcus aureus by ASTM: F 2101 - 19

**Test Organism Used:**

Staphylococcus aureus – ATCC 6538

**Inoculum Size:**

2.00 x 10<sup>8</sup> CFU/ ml

**Test Equipment:**

Aerosol challenge Apparatus with Nebulizer assembly and Cascade impactor

**Flow Rate of Cascade Impactor:**

28.3 L / min

**Aerosol Size:**

3 microns ± 0.5

**Procedure:**

Test sample was clamped between cascade impactor and an aerosol chamber at a distance of 15 cms. Bacterial aerosol of bacteria – Staphylococcus aureus were generated in the chamber using the nebulizer assembly. Aerosols of test organisms of size 3 microns were drawn through the test material using a vacuum attached to cascade impactor. Positive control samples collected aerosol with no test specimen to determine the upstream aerosol counts. The ratio of upstream to down stream was reported as Percentage Bacterial Filtration efficiency. Following results are the Average of three readings.

**Results:**

Sample Identification	Average Bacterial count	BFE (Percentage)
Virus Shield (SW) – Knitted fabric & SMMS filter by Tevero	40	98.66
Positive Control	3.00 x 10 <sup>3</sup>	N. A.

**INTERPRETATION:**

Mask labeled as Virus Shield (SW) – Knitted fabric & SMMS filter by Tevero has exhibited 98.66% Bacterial Filtration Efficiency when analysed as per ASTM: F 2101 - 19 standard.



For BIOTECH TESTING SERVICES

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Quality Manager  
(Authorized Signatory)

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- Result relate only to the samples tested
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