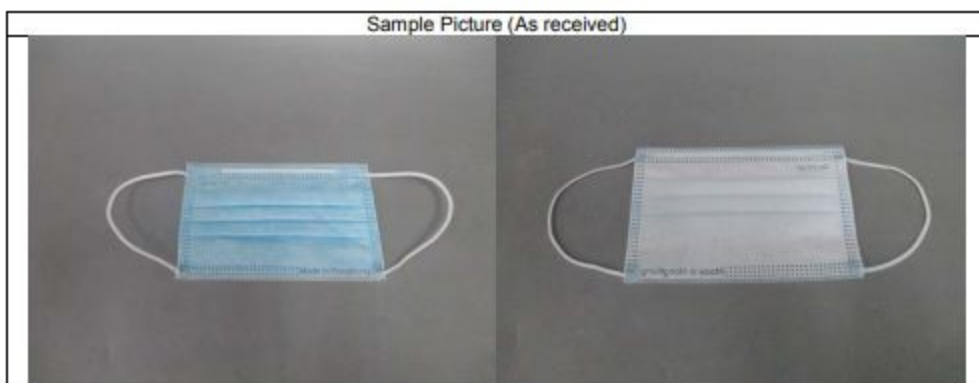


Test Results:
Viral filtration efficiency (VFE) With reference to ASTM F2101-19

Test Side	: White Side (Inside)
Pre-Conditioning	: Minimum of 4 hours at 21±5°C and 85±5% R.H.
Test Condition	: 21±2 °C and 30-50% R.H.
VFE Test Area	: ~ 40 cm ²
VFE Flow Rate	: 28.3 Litre per minute (L/min)
Mean Particle Size	: 2.7 µm
Positive Control Average	: 2.4 x 10 ³ PFU
Negative Monitor Count	: <1 PFU

Test Specimen	Percent VFE (%)
1	>99.9
2	99.9
3	>99.9
4	99.9
5	99.9

Note : The above test results was conducted by a SGS assessed competent subcontractor laboratory

Sample Photo:


SGS authenticate the photo on original report only

*** End of Report ***

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only



Company Name & Address

Ever Sharp (China) Limited

No.1 11/F Topsail Plaza
11 On Sum Street
Shatin HK

Product Description

Medical Face Mask

Conclusion(s)

This is to testify that the test results of the above submitted sample conform jointly to the test requirements of **ASTM F2100-19 Level 3** :

- Bacteria Filtration Efficiency (BFE)
 - Particulate Filtration Efficiency (PFE) at 0.1micron
 - Differential Pressure
 - Resistance to Penetration by Synthetic Blood at 160mmHg
 - Flammability to Class 1
- according to the test reports (HC20080563 issued on 2020-08-28)

Date of Tests

2020-08-13 to 2020-08-28

Test Report Number(s)

HC20080563



Authorized Signatory : _____

Name : LAU Yuk Kuen, Joey

Date of Issued : 2020-09-01

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 - Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
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- 12 . Issuance records of the Report are available on the internet at www.stc.group. Further enquiry of validity or verification of the Reports should be addressed to the Company.



Bacterial Filtration Efficiency (BFE) Final Report

Test Article: Product Name: Melt Blown Filter Fabric
Type: DX-BFE-20
Lot #DX180626
Study Number: 1070289-S01
Study Received Date: 09 Jul 2018
Testing Facility: Nelson Laboratories, LLC
6280 S. Redwood Rd.
Salt Lake City, UT 84123 U.S.A.
Test Procedure(s): Standard Test Protocol (STP) Number: STP0004 Rev 15
Deviation(s): None

Summary: The BFE test is performed to determine the filtration efficiency of test articles by comparing the bacterial control counts upstream of the test article to the bacterial counts downstream. A suspension of *Staphylococcus aureus* was aerosolized using a nebulizer and delivered to the test article at a constant flow rate and fixed air pressure. The challenge delivery was maintained at $1.7 - 2.7 \times 10^3$ colony forming units (CFU) with a mean particle size (MPS) of $3.0 \pm 0.3 \mu\text{m}$. The aerosols were drawn through a six-stage, viable particle, Andersen sampler for collection. This test method complies with ASTM F2101-14, EN 14683:2014, Annex B, and AS4381:2015.

All test method acceptance criteria were met. Testing was performed in compliance with US FDA good manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.

Test Side: Either
BFE Test Area: $\sim 40 \text{ cm}^2$
BFE Flow Rate: 28.3 Liters per minute (L/min)
Conditioning Parameters: $85 \pm 5\%$ relative humidity (RH) and $21 \pm 5^\circ\text{C}$ for a minimum of 4 hours
Positive Control Average: 1.8×10^3 CFU
Negative Monitor Count: < 1 CFU
MPS: $2.9 \mu\text{m}$



Study Director



Janelle R. Bentz, M.S.

23 Jul 2018
Study Completion Date



1070289-S01

Results: 

Test Article Number	Percent BFE (%)
1	99.9
2	99.5
3	99.7
4	99.8
5	99.6

The filtration efficiency percentages were calculated using the following equation:

$$\% BFE = \frac{C - T}{C} \times 100$$

C = Positive control average

T = Plate count total recovered downstream of the test article

Note: The plate count total is available upon request





Latex Particle Challenge Final Report

Test Article: Product Name: Meltblown Filter Fabric
Type: DX-PFE-25
Lot #DX180626

Study Number: 1070288-S01
Study Received Date: 09 Jul 2018
Testing Facility: Nelson Laboratories, LLC
6280 S. Redwood Rd.
Salt Lake City, UT 84123 U.S.A.

Test Procedure(s): Standard Test Protocol (STP) Number: STP0005 Rev 05
Deviation(s): None



Summary: This procedure was performed to evaluate the non-viable particle filtration efficiency (PFE) of the test article. Monodispersed polystyrene latex spheres (PSL) were nebulized, dried, and passed through the test article. The particles that passed through the test article were enumerated using a laser particle counter.

Three one-minute counts were performed, with the test article in the system, and the results averaged. Three one-minute control counts were performed, without a test article in the system, before and after each test article and the counts were averaged. Control counts were performed to determine the average number of particles delivered to the test article. The filtration efficiency was calculated using the average number of particles penetrating the test article compared to the average of the control values.

The procedure employed the basic particle filtration method described in ASTM F2299, with some exceptions; notably the procedure incorporated a non-neutralized challenge. In real use, particles carry a charge, thus this challenge represents a more natural state. The non-neutralized aerosol is also specified in the FDA guidance document on surgical face masks. All test method acceptance criteria were met. Testing was performed in compliance with US FDA good manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.

Test Side: Either Side
Area Tested: 91.5 cm²
Particle Size: 0.1 µm
Laboratory Conditions: 20°C, 33% relative humidity (RH) at 1119; 21°C, 33% RH at 1259
Average Filtration Efficiency: 99.86%
Standard Deviation: 0.021

Results:

Test Article Number	Average Test Article Counts	Average Control Counts	Filtration Efficiency (%)
1	20	12,834	99.84
2	19	13,772	99.86
3	13	10,913	99.88



Sarah Smith for
Study Director

Brandon L. Williams

20 Aug 2018
Study Completion Date



1070288-S01

SGS

CERTIFICATE OF COMPLIANCE



This is to certify that

The Cleanroom at

*Unit 1-7, 15-21, 11/F, Topsail Plaza
11 On Sum Street, Shatin, N.T., Hong Kong SAR*

of Ownership

Ever Sharp (China) Limited

Complies with the Acceptance Criteria of

BS EN ISO 14644-1: 2015: Class 7

(Ambient Particle Concentration, HEPA filter leakage, Air Change Per Hour & Pressure Differential)

As detailed in

Test Report No.: RP2000218 Date of Certification: 24/07/2020

Date of expiry: 24/07/2021

Date of issue: 08/08/2020

Certified by: _____


Ir Donney Man Wai Leung
Biosafety Consultant, MSc, MBA, BSc
NEBB Certified Cleanroom Professional

The Lab (Asia) Ltd.

22 San Hi Tsuen Street,
Ping Shan, N.T., Hong Kong.

Tel: +(852) 2470 2588
Fax: +(852) 2470 2589
Email: info@thelab.asia
Website: www.thelab.asia



The Lab (Asia) Ltd. is a member of the SGS Group.



Test Report

No.T32020280526SN

Date: Oct 23, 2020

Page 1 of 2

EVER SHARP (CHINA) LIMITED

FLAT 1-7, 15-21, 11/F TOPSAIL PLAZA, 11 ON SUM STREET, SHATIN, N.T., HONG KONG

The following samples were submitted and identified by/on behalf of the client as:

WELLMAN 惠民 DISPOSABLE 3-PLY MEDICAL FACE MASK

Case No. : CA320202822749
Lot No. / Batch Code : NOT PROVIDED
Sample Description : BLUE MASK
Quantity Submitted : 10 PCS
Manufacturer : EVER SHARP (CHINA) LIMITED
Country of Origin : HONG KONG
Sample Receiving Date : AUG 20, 2020
Testing Period : AUG 20 TO OCT 23, Oct 23, 2020

Test Requested	Conclusion
Viral filtration efficiency (VFE) (With reference to ASTM F2101)	See Result

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
SGS Hong Kong Ltd.

Au Kam Chi, Gigi
Technical Manager

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Test Results:

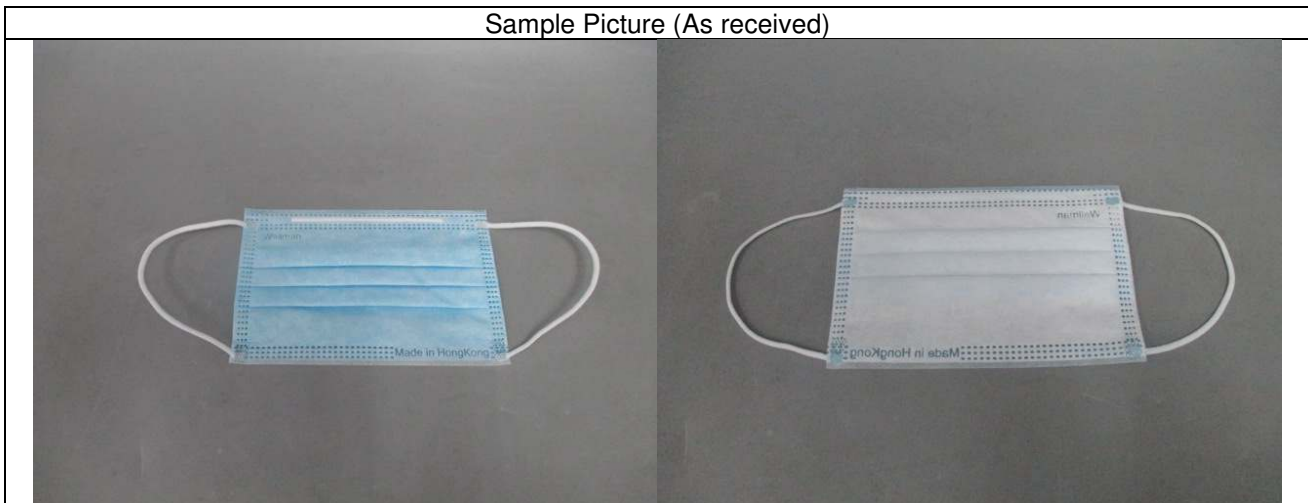
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 Negative Monitor Count : <1 PFU

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Note : The above test results was conducted by a SGS assessed competent subcontractor laboratory

Sample Photo:



SGS authenticate the photo on original report only

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