

TEST REPORT: 7191243504-CHM20-02B-RC

Date: 23 SEP 2020 Tel: +65 68851345 Fax: +65 67784301

Client's Ref: Email: Randy.CHIN@tuvsud.com

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SUBJECT

Bacterial Filtration Efficiency (BFE)

CLIENT

HONSIN APPAREL SDN BHD
531 BATU 2 1/2, JLN KLUANG
83000 BATU PAHAT,
JOHOR, MALAYSIA

Attn : DR. HARIN

SAMPLE SUBMISSION DATE / TEST DATE

19 Aug 2020 / 15 Sep 2020

DESCRIPTION OF SAMPLE

One sample described as below was received:

Table with 3 columns: Product Name / Brand Name, Manufacturer, Lot Number. Row 1: ProXMask Filter, Honsin Apparel Sdn Bhd, PDCC-ProX-021-0003

The test samples have been subjected to AATCC LP2-2018 Home Laundering: Hand Washing procedure (60 washes and drying at 10th, 35th and 60th cycle) prior to testing.





DESCRIPTION OF SAMPLE (cont'd)



Figure 1: "ProXMask Filter" sample as received

METHOD OF TEST

ASTM F2101-19 Standard Test Method for Evaluating the Bacterial Filtration Efficiency (BFE) of Medical Face Mask Materials, Using a Biological Aerosol of *Staphylococcus aureus*.

Area contacting with the bacterial challenge: White side of the filter

Flowrate: 28.3 ± 0.3 L/min

Mean particle size of the challenge aerosol: $3 \mu\text{m} \pm 0.3 \mu\text{m}$

Test area: Approximately 50 cm^2



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RESULTS

Sample Description: ProXMask Filter

Test sample/ controls	Stage 1, CFU	Stage 2, CFU	Stage 3, CFU	Stage 4, CFU	Stage 5, CFU	Stage 6, CFU	Sum of Total plate count for the 6 sieves, CFU	Average Count for Controls, CFU	BFE (%)
-ve Control	0	0	0	0	0	0	Less than 1		
+ve Control 1	164	420	697	713	570	26	2590	2552	
+ve Control 2	161	397	648	727	564	17	2514		
Sample 1	0	0	0	0	0	0	Less than 1		More than 99.96
Sample 2	0	0	0	0	0	0	Less than 1		More than 99.96
Sample 3	0	0	0	0	0	0	Less than 1		More than 99.96
Sample 4	0	0	0	0	1	0	1		99.96
Sample 5	0	0	0	0	0	0	Less than 1		More than 99.96

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Notes :

CFU : Colony Forming Unit
BFE : Bacterial Filtration Efficiency

Remarks :

The above test results relate to the samples as received.

Handwritten signature of MS AW HWEE YING in black ink.

MS AW HWEE YING
HIGHER TECHNICAL EXECUTIVE

Handwritten signature of MR RANDY CHIN KOK FEI in black ink.

MR RANDY CHIN KOK FEI
PRODUCT MANAGER
MICROBIOLOGY
CHEMICAL & MATERIALS



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Effective 01 September 2020

