

TEST REPORT: 7191237211-CHM20-02-RC

Date: 14 MAY 2020

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Client's Ref:

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SUBJECT

Bacterial Filtration Efficiency (BFE)

CLIENT

Sia Huat Private Limited
9 Temple Street
Singapore 058559

Attn : Melvin Tan

SAMPLE SUBMISSION DATE / TEST DATE

27 Apr 2020 / 12 May 2020

DESCRIPTION OF SAMPLE

One sample of Face Mask labelled as "Safico Pro" was submitted by the above company.



METHOD OF TEST

BS EN 14683:2019 "Medical face masks – Requirement and test methods" Annex B – Method for *in vitro* determination of bacterial filtration efficiency (BFE)

Area contacting with the bacterial challenge: Inside of the mask

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



TÜV SÜD PSB

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RESULTS

Sample Description : "Safico Pro" Face Mask

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 (%)	Average BFE (%)
-ve Control	0	0	0	0	0	0	0			
+ve Control 1	200	557	869	560	462	292	2940	2942		
+ve Control 2	301	591	863	621	341	227	2944			
Sample 1	0	0	0	1	0	3	4		99.86	99.92
Sample 2	0	0	0	0	0	1	1		99.97	
Sample 3	0	0	0	0	0	2	2		99.93	
Sample 4	0	0	0	0	0	2	2		99.93	
Sample 5	0	0	0	0	0	3	3		99.90	

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Notes :

CFU : Colony Forming Unit
BFE : Bacterial Filtration Efficiency

Remarks :

The above test results relate to the samples as received.

MS AW HWEE YING
HIGHER TECHNICAL EXECUTIVE

MR RANDY CHIN KOK FEI
PRODUCT MANAGER
MICROBIOLOGY
CHEMICAL & MATERIALS





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July 2011

