

## TEST REPORT: 7191237211-CHM20-01-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

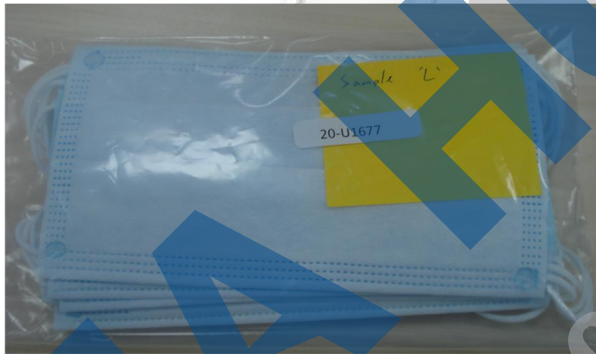
Attn : Melvin Tan

### SAMPLE SUBMISSION DATE / TEST DATE

27 Apr 2020 / 12 May 2020

### DESCRIPTION OF SAMPLE

One sample of Face Mask labelled as "LVYING" 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 µm ± 0.3 µm

Test area: Approximately 50 cm<sup>2</sup>



TÜV SÜD PSB

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**RESULTS**

Sample Description : "LVYING" 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	0	11	129	140		95.24	95.41
Sample 2	0	0	0	2	8	100	110		96.26	
Sample 3	0	0	1	0	16	126	143		95.14	
Sample 4	0	0	0	0	10	149	159		94.60	
Sample 5	0	0	0	0	14	109	123		95.82	

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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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