

TEST REPORT: 7191237456-CHM20-01-RC

Date: 19 MAY 2020

Tel: +65 68851345 Fax: +65 67732912

Client's Ref:

Email: Randy.CHIN@tuv-sud-psb.sg

Note: This report is issued subject to the Testing and Certification Regulations of the TÜV SÜD Group and the General Terms and Conditions of Business of TÜV SÜD PSB Pte Ltd. In addition, this report is governed by the terms set out within this report.



PSB Singapore

Add value.
Inspire trust.

SUBJECT

Bacterial Filtration Efficiency (BFE)

CLIENT

Vital Shield Pte Ltd
30 Kallang Place
#06-10
Singapore 339159

Attn : Tao Juinn Ann

SAMPLE SUBMISSION DATE / TEST DATE

06 May 2020 / 15 May 2020

DESCRIPTION OF SAMPLE

One sample of face mask was submitted by the above company as follows:

Model: VS50MB
Trade name: VITAL SHIELD
Description: 3-ply face mask



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 cm²



TÜV SÜD PSB

Laboratory:
TÜV SÜD PSB Pte. Ltd.
No.1 Science Park Drive
Singapore 118221

Phone : +65-6885 1333
Fax : +65-6776 8670
E-mail: enquiries@tuv-sud-psb.sg
www.tuv-sud-psb.sg
Co. Reg : 199002667R

Regional Head Office:
TÜV SÜD Asia Pacific Pte. Ltd.
1 Science Park Drive, #02-01
Singapore 118221
TÜV®

TEST REPORT: 7191237456-CHM20-01-RC
19 MAY 2020



PSB Singapore

RESULTS

Sample Description : Model: VS50MB
Trade name: VITAL SHIELD
Description: 3-ply 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	214	397	897	603	449	398	2958	2978		
+ve Control 2	221	469	859	682	437	329	2997			
Sample 1	0	0	0	0	0	6	6		99.80	99.77
Sample 2	0	0	0	0	2	6	8		99.73	
Sample 3	0	0	0	0	1	4	5		99.83	
Sample 4	0	0	0	0	0	9	9		99.70	
Sample 5	0	0	0	0	2	4	6		99.80	

TEST REPORT: 7191237456-CHM20-01-RC
19 MAY 2020



PSB Singapore

Notes :

CFU : Colony Forming Unit
BFE : Bacterial Filtration Efficiency

Remarks :

The above test results relate to the samples as received.

A handwritten signature in black ink, appearing to read 'HWY'.

MS AW HWEE YING
HIGHER TECHNICAL EXECUTIVE

A handwritten signature in black ink, appearing to read 'Randy'.

MR RANDY CHIN KOK FEI
PRODUCT MANAGER
MICROBIOLOGY
CHEMICAL & MATERIALS



TEST REPORT: 7191237456-CHM20-01-RC
19 MAY 2020



PSB Singapore

Please note that this Report is issued under the following terms :

1. This report applies to the sample of the specific product/equipment given at the time of its testing/calibration. The results are not used to indicate or imply that they are applicable to other similar items. In addition, such results must not be used to indicate or imply that TÜV SÜD PSB approves, recommends or endorses the manufacturer, supplier or user of such product/equipment, or that TÜV SÜD PSB in any way "guarantees" the later performance of the product/equipment. Unless otherwise stated in this report, no tests were conducted to determine long term effects of using the specific product/equipment.
2. The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client. TÜV SÜD PSB therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture, consignment or any information supplied.
3. Nothing in this report shall be interpreted to mean that TÜV SÜD PSB has verified or ascertained any endorsement or marks from any other testing authority or bodies that may be found on that sample.
4. This report shall not be reproduced wholly or in parts and no reference shall be made by the Client to TÜV SÜD PSB or to the report or results furnished by TÜV SÜD PSB in any advertisements or sales promotion.
5. Unless otherwise stated, the tests were carried out in TÜV SÜD PSB Pte Ltd, No.1 Science Park Drive Singapore 118221.

July 2011

