

## TEST REPORT: 7191237591-CHM20-01-RC

Date: 26 MAY 2020

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Client's Ref:

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### **SUBJECT**

Bacterial Filtration Efficiency (BFE)

### **CLIENT**

3P Medical Device Pte Ltd  
119 Neythal Road  
#01-01  
Singapore 628605

Attn : Helen Lee

### **SAMPLE SUBMISSION DATE / TEST DATE**

11 May 2020 / 21 May 2020

### **DESCRIPTION OF SAMPLE**

One sample of face mask was submitted by the above company.

Product Name : Disposable Medical Face Mask  
Lot No. : 3P01/0001



### **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:  $28.3 \pm 0.3$  L/min

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

Test area: Approximately  $50 \text{ cm}^2$



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**RESULTS**

Product Name : Disposable Medical Face Mask  
Lot No. : 3P01/0001

| Test sample/<br>controls | Stage 1,<br>CFU | Stage 2,<br>CFU | Stage 3,<br>CFU | Stage 4,<br>CFU | Stage 5,<br>CFU | Stage 6,<br>CFU | Sum of Total<br>plate count for<br>the 6 sieves,<br>CFU | Average<br>Count for<br>Controls,<br>CFU | BFE (%) | Average<br>BFE (%) |
|--------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---|--|---------|--------------------|
| -ve Control              | 0               | 0               | 0               | 0               | 0               | 0               | 0   |  |         |                    |
| +ve Control 1            | 154             | 387             | 627             | 340             | 211             | 217             | 1936  | 1996                                     |         |                    |
| +ve Control 2            | 157             | 542             | 498             | 441             | 268             | 149             | 2055  |  |         |                    |
| Sample 1                 | 0               | 0               | 0               | 0               | 0               | 12              | 12  |  | 99.40   | 99.40              |
| Sample 2                 | 0               | 0               | 1               | 0               | 0               | 2               | 3   |  | 99.85   |                    |
| Sample 3                 | 0               | 0               | 0               | 0               | 3               | 25              | 28  |  | 98.60   |                    |
| Sample 4                 | 0               | 0               | 0               | 0               | 1               | 5               | 6   |  | 99.70   |                    |
| Sample 5                 | 0               | 0               | 0               | 0               | 1               | 10              | 11  |  | 99.45   |                    |

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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 be 'Hw' followed by a stylized flourish.

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**MS AW HWEE YING**  
HIGHER TECHNICAL EXECUTIVE

A handwritten signature in black ink, appearing to be 'Randy' followed by a stylized flourish.

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**MR RANDY CHIN KOK FEI**  
PRODUCT MANAGER  
MICROBIOLOGY  
CHEMICAL & MATERIALS



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July 2011

