

TEST REPORT

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Page 1 of 2

BACTERIAL FILTRATION EFFICIENCY (BFE) TEST

Date : 09/10/2020

Date Sample Received : 16/09/2020

Date Sample Analyzed : 05/10/2020

Tested For: **Medi Dent International Pte Ltd**
21 Ubi Road 1
#05-02B
Singapore 408724
Attn: Mr Amjad Ali


Sample Description:
Surgisyl 3-Ply Surgical Face Mask

Test Method:
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 of test specimen tested: Approximately 100 cm²

Area contacting with the bacterial challenge: Outer surface of the mask

Flow rate: 28.3 L/min



SZE YU XIN
SENIOR MICROBIOLOGIST

BIOLOGICAL & CHEMICAL TECHNOLOGY DIVISION

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Results:

Test sample / Controls	Stage 1, CFU	Stage 2, CFU	Stage 3, CFU	Stage 4, CFU	Stage 5, CFU	Stage 6, CFU	Sum of plate count for each stage, CFU	Average plate count of the controls, CFU	Mean Particle Size ¹ (µm) ¹	BFE (%) ²
Negative Control (Before)	0	0	0	0	0	0	0	0		
Negative Control (After)	0	0	0	0	0	0	0			
Positive Control 1	201	450	793	833	670	21	2968		2.91	
Positive Control 2	208	443	833	766	644	17	2911		2.96	
Positive Control 3	175	367	793	644	555	16	2550	2841	2.96	
Positive Control 4	188	417	892	779	597	24	2897		2.94	
Positive Control 5	203	450	786	766	644	29	2878		2.94	
FB850012401701	1	0	0	0	0	1	2			99.9
FB850012401702	0	0	1	0	1	3	5			99.8
FB850012401703	1	0	0	1	0	0	2			99.9
FB850012401704	0	0	1	2	0	0	3			99.9
FB850012401705	1	0	2	1	0	0	4			99.9

Remarks:

The tested results apply only to the samples as received by the laboratory.

¹Particle size to be in the range of 3.0 µm ± 0.3 µm.



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