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Setsco Services Pte Ltd 18 Teban Gardens Crescent Singapore 608925

Tel: (65) 6566 7777 Fax: (65) 6566 7718 www.setsco.com Business Reg. No. 196900269D

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Your reference No.

Our reference No.

FB8500163443

BACTERIAL FILTRATION EFFICIENCY (BFE) TEST

Date Issued

: 02-Jun-2021 Date Sample Received: 31-May-2021 Date Sample Analyzed: 01-Jun-2021

Tested For:

Grantech Pte Ltd 629 Aljunied Road

Unit 04-17

Cititech Industrial Building

Singapore 389838 Attention: SY Ong

Manufacturer: Grantech Pte Ltd

Sample Description: Granzilla Aircare 3 Ply Disposable Face Mask (Black/White)

LOT No: 21042021

Sample:



Conditioning

Samples were pre-conditioned to a temperature of 21± 5°C and relative humidity of 85± 5% for a minimum of 4 hours.

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.

BS EN 14683: 2019: Medical face masks - Requirements and test methods

Area of test specimen tested: Approximately 100 cm²

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

Flow rate: 28.3 L/min

DR WU JIEN HOD, MICROBIOLOGY

BIOLOGICAL & CHEMICAL TECHNOLOGY DIVISION

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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 Size¹ (μm)¹	BFE (%) ²
Negative Control (Before)	0	0	0	0	0	0	0	C		
Negative Control (After)	0	0	0	0	0	0	0			
Positive Control 1	148	403	942	563	571	09	2687		2.94	
Positive Control 2	155	423	942	934	437	73	2964		2.93	
Positive Control 3	237	374	746	801	432	111	2701	2539	3.00	
Positive Control 4	126	298	629	531	482	40	2136		2.87	
Positive Control 5	144	237	772	524	426	105	2208		2.86	
FB850016344301	0	0	0	0	0	0	0		•	100.0
FB850016344302	0	0	2	0	-	1	4		* **	99.8
FB850016344303	0	0	0	0	0	0	0			100.0
FB850016344304	0	0	0	-	0	0	1			100.0
FB850016344305	1	0	0	0	~	0	_			66.66

Remarks: The tested results apply only to the samples as received by the laboratory. The tested results apply only to the samples as received by the laboratory. Particle size to be in the range of 3.0 μ m \pm 0.3 μ m. BS EN 14683 – Type1, percentage of Bacterial Filtration Efficiency (BFE) must be \geq 95.

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