

TEST REPORT

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Date: 07/06/2021
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Your Ref:

Our Ref: FB 8500163443

Subject : Bioburden Testing for “Granzilla Aircare 3 Ply Disposable Face Mask (Black/White)” Sample submitted by Grantech Pte Ltd on 31/05/2021 and tested on 31/05/2021.

Tested For : **Grantech Pte Ltd**
 629 Aljunied Road
 Unit 04-17
 Cititech Industrial Building
 Singapore 389838
Attention: SY Ong

Test Method : BS EN 14683:2019 / ISO 11737-1:2018 (Bio-burden Test)

Sample Reference : Granzilla Aircare 3 Ply Disposable Face Mask (Black/White)
 (Lot: LOT21042021)

Results :

Counts of Test Microorganisms Used for Validation

Test Microorganisms	ATCC Strain	Colony Forming Unit
<i>Staphylococcus aureus</i>	ATCC 6538	42
<i>Pseudomonas aeruginosa</i>	ATCC 9027	42
<i>Bacillus atrophaeus</i>	ATCC 9372	40
<i>Candida albicans</i>	ATCC 10231	30
<i>Aspergillus niger</i>	ATCC 16404	34



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Growth Promotion Test & Environmental Sterility

Control	Medium Type	Results
Media Sterility	SCDA	No Growth
Media Sterility	SDA	No Growth
<i>Staphylococcus aureus</i>	SCDA	40
<i>Pseudomonas aeruginosa</i>	SCDA	36
<i>Bacillus atrophaeus</i>	SCDA	38
<i>Candida albicans</i>	SDA	32
<i>Aspergillus niger</i>	SDA	32

Product Inoculation Test (Method Suitability Test)

Test Microorganisms	Control (cfu/100ml)	Sample (cfu/100ml)	Recovery Efficiency %
<i>Bacillus atrophaeus</i>	80	74	109

Sample Test

Sample	Filtered Volume	Weight (g)	SCDA	SDA	CFU/sample	CFU/g	Conclusion
1	100 ml	3.28	16	3	19	5.79	<p style="text-align: center;">Pass 8 cfu/g < 30 cfu/g</p>
2		3.28	19	3	22	6.71	
3		3.27	11	3	14	4.28	
4		3.28	33	3	36	10.98	
5		3.29	35	3	38	11.55	
Average cfu/g						7.86	

Remark:-

1. SCDA-Soybean Casein Digest Agar, 32.5± 2.5°C
2. SDA - Sabouraud Dextrose Agar, 22.5± 2.5°C
3. The tested results apply only to the samples as received by the laboratory.

Conclusion:

From the above analysis criteria, the sample **passed** the microbial cleanliness test (bioburden) by achieving < 30 cfu/g in accordance with BS EN 14683:2019.



**MAHENTHIRAN
SENIOR EXECUTIVE MICROBIOLOGIST
BIOLOGICAL & CHEMICAL TECHNOLOGY DIVISION**