

# TEST REPORT

(This Report is issued subject to the terms & conditions set out below)

**Setsco Services Pte Ltd**  
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 Business Reg. No. 196900269D

**Date: 01/06/2021**  
**Page 1 of 2**

**Your Ref:**

**Our Ref: FB 8500162956/1**

**Subject :** Bioburden Testing for “Granzilla Aircare 3 ply disposable face mask (Blue)” sample submitted by Grantech Pte Ltd on 25/05/2021 and tested on 28/05/2021.

**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 (Blue)  
 (Lot:22022021)

**Results :**

Counts of Test Microorganisms Used for Validation

Test Microorganisms	ATCC Strain	Colony Forming Unit
<i>Staphylococcus aureus</i>	ATCC 6538	38
<i>Pseudomonas aeruginosa</i>	ATCC 9027	38
<i>Bacillus atrophaeus</i>	ATCC 9372	36
<i>Candida albicans</i>	ATCC 10231	32
<i>Aspergillus niger</i>	ATCC 16404	30

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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	42
<i>Pseudomonas aeruginosa</i>	SCDA	40
<i>Bacillus atrophaeus</i>	SCDA	36
<i>Candida albicans</i>	SDA	34
<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>	52	40	77

**Sample Test**

Sample	Filtered Volume	Weight (g)	SCDA	SDA	CFU/sample	CFU/g	Conclusion
1	100 ml	3.21	3	3	6	1.87	<p align="center"><b>Pass</b> 2 cfu/g &lt; 30 cfu/g</p>
2		3.2	3	3	6	1.88	
3		3.17	3	3	6	2.84	
4		3.18	3	3	6	1.89	
5		3.15	3	3	6	1.90	
Average cfu/g						2.07	

**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.

  
**DR WU JI EN**  
**MANAGER**  
**BIOLOGICAL & CHEMICAL TECHNOLOGY DIVISION**

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

**Sample Reference :** Granzilla Aircare 3 Ply Disposable Face Mask (Blue)  
 (Lot:25052021)

**Results :**

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Test Microorganisms	Control (cfu/100ml)	Sample (cfu/100ml)	Recovery Efficiency %
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**Sample Test**

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1	100 ml	3.15	3	3	6	1.90	<b>Pass</b> 2 cfu/g < 30 cfu/g
2		3.17	3	3	6	1.89	
3		3.19	3	3	6	2.82	
4		3.21	3	3	6	1.87	
5		3.25	3	3	6	1.85	
Average cfu/g						2.07	

**Remark:-**

1. SCDA-Soybean Casein Digest Agar, 32.5± 2.5°C
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