



THE SOUTH INDIA TEXTILE RESEARCH ASSOCIATION

CENTRE OF EXCELLENCE FOR MEDICAL TEXTILES

Physical, Chemical & Biological Testing Laboratories

(ISO/IEC 17025 NABL ACCREDITED)

13/37, Avinashi Road, Aerodrome Post, Coimbatore - 641 014, INDIA

CoE - Microbiology Laboratory

Test Report No	: M1900261	Report Date	: 11-03-2020
SITRA Ref No	: XXVII / M / E / 1693 / 20	No of Samples	: 1
Customer Ref No	: DT-2.3.2020	Received On	: 07-03-2020

To

Plasti Surge Industries Pvt Ltd

A-70, MIDC.

Amaravathi, Maharashtra, India

Pincode : 444607

Contact No(s) : 9923332321

Dear Sir / Madam,

This has reference to the sample(s) submitted by you for testing vide your Email reference no : **DT-2.3.2020**.

The results pertaining to your sample(s) are enclosed herewith.

Encl : Bill [T-COE-1920-01502]

This is a computer generated report, hence does not require signature.

IMPORTANT

This report is strictly CONFIDENTIAL. Its use for publicity, arbitration or as evidence in legal disputes is forbidden. Reference of sample(s) given by the party. Samples are not drawn by the laboratory. The above results are related to the samples tested. The report shall not be reproduced except in full, without the written approval of the laboratory.



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Plasti Surge Industries Pvt Ltd

Ref : DT-2.3.2020

Test Name : Bacterial Filtration Efficiency ASTM F 2101-Standard Test Method for Evaluating the Bacterial Filtration Efficiency (BFE) of Medical Face Mask Materials, Using a Biological Aerosol of *Staphylococcus aureus*

Test Condition:

Inoculum size : *Staphylococcus aureus* ATCC 6538 = 5×10^5 CFU/ mL

Media used : Tryptic soya agar

Dilution medium used : Peptone water

Incubation conditions : 37°C for 24 h

Observation :

Test Parameter	M1900261-1
	Described by the customer : Nonwoven; Face Mask
Area of test specimen	Facemask
Sample exposure side	Faceside
Flow rate of aerosol	28.5 L/min
Mean particle size of challenging aerosol	3.0 ± 0.3 micron
Average plate count of positive control	2189
Average plate count of negative control	0
BFE of test specimen (%)	99.1
Result : : The sample showed 99.1% bacterial filtration efficiency against <i>Staphylococcus aureus</i> ATCC 6538 when tested according to ASTM F 2101 test method.	

Authorized Signatory

- End of Report -