



# THE SOUTH INDIA TEXTILE RESEARCH ASSOCIATION

**CENTRE OF EXCELLENCE FOR MEDICAL TEXTILES**  
**Physical, Chemical & Biological Testing Laboratories**

(ISO/IEC 17025 NABL ACCREDITED)

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Cert. Number:TC-6944

Test Report No : O2001009

ULR: TC694420010000765F

Report Date : 30-09-2020

Duraplus Healthcare

Ref : LETTER DTD 26.09.2020

ASTM F 2101 Bacterial filtration efficiency	<b>O2001009-1</b> <u>Sample Particulars</u> : 3 PLY MASK WITH MELTBLOWN FILTER
Test Condition[s]	.
Test organisms used	<i>Staphylococcus aureus</i> ATCC 6538
Inoculum size	5 x 10 <sup>5</sup> CFU/mL
Media used	Tryptic soya agar
Dilution medium used	Peptone water
Incubation conditions	37°C for 24 h
Results	.
Area of test specimen exposed	Face Mask 10 x 10 cm
Sample exposure side	Face side
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	2217
Average plate count of negative control	0
BFE of test specimen (%)	99.9
The sample showed <b>99.9% bacterial filtration efficiency</b> against <i>Staphylococcus aureus</i> ATCC 6538 when tested according to ASTM F 2101 test method.	

- End of Report -

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