

APEX TESTING AND RESEARCH LABORATORY

9/50, Kirti Nagar, Industrial Area, New Delhi-110015
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apextesting.researchlab2015@gmail.com
Website : www.atrl.in, Tel. : 011-47081611, +91-8376945025
ISO 9001:2015 | ISO 14001:2015
ISO 45001:2018 Certified | Govt. Approved Lab

TEST REPORT

Issued To : M/s. Devsena Industries Private Limited
: 17, DLF Industrial Area, Basement
: Moti Nagar, New Delhi-110015
Nature of the Sample : 3 Ply Surgical Mask with Nosepin (SMS)
Customer Ref. No : N.S
Brand Name : N.S
Sample Drawn By : Party
Batch No. : N.S
Mfg. Date : N.S

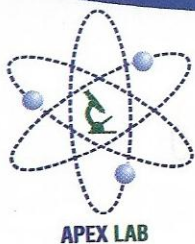
Report /Sample No. : AS1720200517002
Date Of Receipt : 17.05.2020
Date of Issue : 18.05.2020
Test Started On : 17.05.2020
Test Completed on : 18.05.2020
Sample Quantity : 25 pcs
Sample Pkg. : N.S
Best Before Date : N.S
Any Other Information : N.S

Sr. No	Test Parameters	Test Method	Unit	Test Result	ASTM-F2100:2011 & EN:14683:2014 ASTM Level 2 Mask
1.	Descriptions	ASTM F2100: 2011/ IS:16289:2014	-	Medical mask, good breathability internal and external faces is clearly indentified	Medical mask, good breathability internal and external faces should be clearly indentified
2.	Submicron Particle Filtration @ 0.1 micron	IS:16289:2014 Annexure E	%	98.2	≥98
3.	Flame Spread	16 CFR Part 1610	-	Class 1	Class 1



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THIS REPORT IS NOT VALID WITHOUT HOLOGRAM



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Sr. No	Test Parameters	Test Method	Unit	Test Result	ASTM-F2100:2011 & EN:14683:2014 ASTM Level 2 Mask
1.	Bacterial Filtration Efficiency	IS:16288:2014	%	98.6	≥98

Summary: The BFE test is performed to determine the filtration efficiency of test article compared to the bacterial counts. A suspension of Staphylococcus aureus NCIM2127 was aerosolized onto the test article at a constant flow rate. The challenged delivery is maintained at $3.4-4.5 \times 10^4$ colony forming units with mean particle size of $3.0 \mu\text{m} \pm 0.3 \mu\text{m}$. The procedure shows reproducible bacterial challenge to be delivered to the test materials. This method complies with ASTM F2100-11 & EN: 14683:2014.

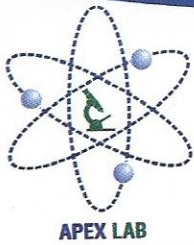
Remarks: This sample conforms as per ASTM-F2100-11 & EN-14683:2014.



****End of Report****

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Sr. No	Test Parameters	Unit	Test Result	Specification EN 14683, ASTM F1862, As per Party
1	Type	ply	3	2 or 3
2	Check for integrity	-	Complies	All Layers Stitched together no tear and no gaps
3	Outer layer	GSM	20.42	PP spunbond, 20±5%
4	Filter layer	GSM	25.07	Meltblown, 25±5%
5	Inner layer	GSM	17.73	PP spunbond, 20±5%
6	Width	mm	174	175 ±5%
7	Height	mm	94	95 ±5%
8	Weight	g	2.59	3g ±5%
9	Absorbance test	%	13.13	-
10	Residue on exportation	mg	2.69	NMT 5
11	Test Acidity or alkalinity	-	Complies	NMT/ml of 0.001M HCl/NaOH
12	Reducing (oxidizable) test	-	Complies	NMT 2ml of 0.002M KMnO ₄
13	Breathing resistance	Pascal/cm ²	Complies	NMT 49
14	Splash resistance pressure	mm Hg	Complies	NLT 120

Remarks: This sample conforms as per EN-14683, ASTM F1862 w.r.t above test parameter.

NLT- Not less than, NMT- Not more than, M- Molarity, GSM- Gram per square meter

Note-The above report is concerned only to the samples submitted by the customer to Apex Testing and Research Laboratory. These results may not be indicative of the results of bulk lot. It is the duty of the supplier/Customer to maintain the traceability between the sample submitted for testing and the bulk lot supplied.

This report is generated to let the customer know about the quality of their product and to help them improve their product's quality.

****End of Report****

Authorized Signatory
(Chemical)

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