

## APEX TESTING AND RESEARCH LABORATORY

9/50, Kirti Nagar, Industrial Area, New Delhi-110015

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Website: www.atrl.in, Tel.: 011-47081611, +91-8376945025

ISO 9001:2015 | ISO 14001:2015

ISO 45001:2018 Certified | Govt. Approved Lab

## **TEST REPORT**

: M/s. Devsena Industries Private Limited Issued To

> : 17, DLF Industrial Area, Basement : Moti Nagar, New Delhi-110015

: N95/FFP2 Mask Nature of the Sample

Customer Ref. No : N.S

: DS Devsena **Brand Name** 

Sample Drawn By : Party

Batch No. : N.S

: AS1720200625009 Report /Sample No.

: 25.06.2020 Date Of Receipt

: 29.06.2020 Date of Issue

Test Started On : 25.06.2020 : 29.06.2020 Test Completed on

Sample Quantity : 20 pcs

: N.S Sample Pkg. : N.S

Best Before Date

Mfg. Date	: N.S		Mod	lel No : N.S				
Sr. No Test Parameters		Unit	Test Result	Specification As per Party	Test Standard/ Test Method			
1	Description	on the first of the A	Well fitted, non collapsible with nose pin and respiratory valve which provide good breathability	Should be well fitted, non collapsible and with good breathability	_			
2	Layers	ply	6	6	Visually -			
3	Check for integrity	-	Complies	All Layers Stitched together no tear and gaps	Visually			
4	Weight	g	8.23		By measurement			
5	Layer-I	GSM	51.85		By measurement			
6	Layer –II	GSM	26.45	_	By measurement			
7	Layer- III	GSM	59.25	N 200 000 000	By Measurement			
8	Layer- IV	GSM	26.45		By Measurement			
9	Layer- V	GSM	25.39		By Measurement			
10	Layer- VI	GSM	25.39		By Measurement			
11	Absorbance test	%	4.73	2 2	By weighing			
12	Water Resistance	g	Complies	≤4.5	AATCC-42			
Sr. No	Test Parameters	Unit	Test Result	Specification as per ASTM2100:2011, ASTM F1862	Test Method			
1	Splash resistance pressure	mm Hg	Complies at 80	≥80 mm Hg	IS16289:2014			
Sr. No Test Parameters		Unit	Test Result	Specification as per EN14683	Test Method			
1	Breathability	Pa/cm <sup>2</sup>	Complies at less than 29.4	<29.4 Pa/cm <sup>2</sup>	IS16289:2014			

GSM- Gram per square meter

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Terms & Conditions : 1 Test reports are valid only for the samples tested in our laboratory. 2. Samples will be destroyed after 30 days from the date of issue of test reports unless otherwise specified. 3. Samples tested are Non-Returnable until specified at time of sample submission. 4. This report will not be valid for judicial purpose or for advertisement. 5. Any complaints about this report should be communicated in writing within 7 days of issue of this report. 6. Total liability of our laboratory is limited to invoiced amount. THIS REPORT IS NOT VALID WITHOUT HOLOGRAM



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> : 17, DLF Industrial Area, Basement : Moti Nagar, New Delhi-110015

: N95/FFP2 Mask

Nature of the Sample

Customer Ref. No

**Brand Name** 

Sample Drawn By

Batch No.

Mfg. Date

: N.S

: DS Devsena : Party

: N.S : N.S Report /Sample No.

: AS1720200625009

Date Of Receipt : 25.06.2020 Date of Issue : 29.06.2020

: 25.06.2020

Test Completed on Sample Quantity

Test Started On

: 29.06.2020 : 20 pcs

Sample Pkg. Best Before Date : N.S : N.S

Model No

: N.S

Sr. No	Test Parameters	Unit	Test Result	Specification as per NIOSH-42C FR84	Test Method		
1.	Bacterial Filtration Efficiency	%	97.19	≥95	IS:16288:2014		

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  $3.5-4.4X10^4$  colony forming units with mean particle size of  $3.0~\mu m \pm 0.3~\mu m$ . The procedure shows reproducible bacterial challenge to be delivered to the test materials.

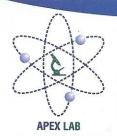
Remarks: This sample conforms as per NIOSH-42C FR84

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.



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Date: 27.06.2020

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Qualitative Test: Relies on the wearer's ability to taste or smell a test agent (Reference: IS: 9473:2002, EN149 & NIOSH Guidelines)

Report No: AS1720200625009 Sample Name: N95/FFP2 Mask

Combined results of five participants:

Name of participants:

- A. Ashish Kant Jain
- B. Geetanjali
- C. Varun Sharma
- D. Neha Bhardwaj
- E. Kishanjeet

	tion of Test: 10 minutes Agent: Sodium chloride aerosol																									
S. Activities to perform by No participant for 60 seconds after injecting aerosol		Able to inhale properly				Able to exhale properly				Feel irritation in nose/ Sneeze				Smell aerosol					Taste aerosol							
	Participants Name Code	Α	В	С	D	E	Α	В	С	D	Е	Α	В	С	D	E	Α	В	С	D	E	Α	В	С	D	E
1.	Normal breathing	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	N	N	Υ	N	N	N	N	N	N	N	N	N	N	N
2.	Deep breathing	Υ	Y	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	N	N	N	N	N	N	Υ	N	N	N	N	N	N	N
3.	Stand fixed in a place and move head side to side, between the extreme positions of each side	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	N	N	N	N	N	N	N	N	N	Υ	N	N	N	N
4.	Move head up and down	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	N	Υ	N	N	N	N	N	N	N	N	N	N	N	Υ
5.	Recite counting 1 to 100 and backwards slowly and loudly so that it could be heard by test conductor	Υ	Υ	Υ	Υ	Υ	· Y	Υ	Υ	Υ	Υ	Υ	N	Υ	N	N	N	N	N	N	N	N	N	Υ	N	N
6.	Bend and touch your feet 10 times and then jog at your place	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	N	N	N	N	N	N	N	N	N	N	N	N	Υ	N
7.	Breathe normally	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	Υ	N	N	N	N	N	N	Υ	N	N	N	N	N	N	Ŋ	N

Points we consider while selecting the participants for test.

- I. Participants did not smoke, eat, or drink (except water) at least 20 minutes prior to test.
- II. Participants were clean-shaved i.e had not have facial hair.
- III. Participants were medically fit and had no respiratory problem.

**Conclusion:** For qualitative test 5 participants were chosen and they were asked to perform some activities for 60 seconds each. After studying their collective response, we can conclude that the sample doesn't allow the aerosol to pass through it in the amount that could hinder the inhalation and exhalation process of participant.

Remarks: The results of qualitative testing show that the sample provides good breathability and protection against aerosol particles.

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\*\*End of Report\*\*

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