

**WHERE
QUALITY
IS CONCERNED
WE TAKE
NO CHANCES.**



TC-10000

NABL Accredited Testing Laboratory

**VIRIDIAN TESTING
LABORATORIES LLP**

VIRIDIAN



VIRIDIAN



**STRINGENT
QUALITY TESTS
TO ENSURE
YOUR SAFETY.**

VIRIDIAN TESTING LABORATORIES LLP is a state of the art Laboratory specialized in the testing of :

- Surgical 3Ply face mask
- N95 / FFP1 / FFP2 / FFP3 Respirator
- PPE Coveralls
- Surgical / Isolation Gowns
- Textile Fabric & Garments

VIRIDIAN TESTING LABORATORIES LLP is a state of art laboratory spread across an area of 5000sq.ft in the industrial city of TIRUPUR TamilNadu, India.
 We are the Lab in India having all precise instruments recommended by NIOSH/BIS etc.
 We are the Only lab in INDIA with this much big dedicated facility of PPE testing
 We are the Only Lab in India can perform all NIOSH tests with the facility of other standards like BIS,ASTM,ISO etc.

- The Lab comprises of 3 testing sections
- Physical / Mechanical Laboratory
 - Chemical Laboratory
 - Microbiology Laboratory

The Microbiology labsection consists of media section Sterlization section, Inoculation Section, BFE Section, Dry Bacterial Filtration efficiency Section. These operations are carried out in an ultraclean protected environment. The Ultra Clean microbiology lab is used for detrermining pathogenic (Bacteria) resistance in PPE products.



Laboratory

Microbiology Laboratory

Our 1500 Sq.ft laboratory consists of ultra clean rooms with appropriate safety mechanism, an aseptic operation area, pathogen storage section and a highly effective decontamination chamber

Physical / Mechanical Laboratory

This section of the lab is specialized in testing of the physical/mechanical properties of the PPE gear and textile products. The testing is carried out in accordance to various international testing standards.

Chemical Laboratory

Tests related to washing and drying of textile products covering both U.S.A & EUROPEAN standards. Going forward this section will be developed in determining and testing of core chemical parameters.



Test Capability

Product	STD	EN	US	IS	Test Name	Standard			Viridian lab Capability			
						EN	US	IS	EN	US	IS	
3 Ply Mask	EN 14683 / ASTM 2100 / IS 16289	x	x	x	Fluid / Splash Resistance	ISO 22609	ASTM F1862	ISO 22609	√	√	√	
		x	x	x	Differential Pressure	EN 14683 (Annex C)	EN 14683 (Annex C)	IS 16289 (Annex C)	√	√	√	
		x	x	x	BFE	EN 14683 (Annex B)	ASTM F2101	IS 16288	√	√	√	
		x	x	x	PFE		ASTM F2299	IS 16289 (Annex E)		√	√	
		x			Microbial Cleanliness	EN ISO 11737-1			x			
		x		x	Flame Spread		16CFR 1610			√		
Product	STD	EN	US	IS	Test Name	Standard			Viridian lab Capability			
Surgical gown / Isolation Gown / PPE Cover all	EN 13795 / AAMI PB70 & ASTM 2407 / IS 17334		x	x	Impact Resistance		AATCC 42	ISO 18695		√	√	
			x	x	Hydrostatic Pressure		AATCC 127	ISO 811		√	√	
			x	x	Synthetic Blood Penetration		ASTM F1670	IS 16546		√	√	
			x	x	Viral Penetration		ASTM F1671	IS 16545		√	√	
				x	Biocompatibility Test			ISO 10993-5 & ISO 10993-10				x
		x		x	Resistance to Wet Bacteria	EN ISO 22610		IS 16549		√		√
		x		x	Resistance to Dry Bacteria	EN ISO 22612		IS 16548		√		√
		x		x	Bursting Strength - Dry	EN ISO 13938-1		IS 1966-1		√		√
		x		x	Bursting Strength - Wet	EN ISO 13938-1		IS 1966-1		√		√
		x		x	Microbial Cleanliness/ Bioburden	EN ISO 11737-1		ISO 11737-1		x		x
				x	Tear Resistance		ASTM D5587				√	
				x	Seam Strength		ASTM D1683				√	
				x	Abrasion Resistance		ASTM D4966				√	
				x	Water Vapor Transmission Rate		ASTM F 1868 & ASTM D 6701 & ASTM E 96	ISO 11092			x	x
		x			Liquid Penetration	EN ISO 811				√		
		x	x	x	Particle Release / Lint Generation	EN ISO 9073-10	ISO 9073-10	IS 15891-10		x	x	x
x	x	x	Tensile Strength - Dry	EN 29073-3	ASTM 5034	IS 15891-3 & IS 1969-1		√	√	√		
x		x	Tensile Strength - Wet	EN 29073-3		IS 15891-3 & IS 1969-1		√		√		
Product	STD	EN	US	IS	Test Name	Standard			Viridian lab Capability			
N95 Respirator	EN 149 / 42 CFR 84 / IS 9473		x		Particle Filtration As per NIOSH						√	
			x		Fit testing						√	
			x		Breathing Resistance (Inhalation & Exhalation)						√	
		x		x	Breathing Resistance- Exhalation @ 160 lpm					√	√	
		x		x	Breathing Resistance - Inhalation @ 30 lpm					√	√	
		x		x	Breathing Resistance - Inhalation @ 95 lpm					√	√	
		x		x	Flammability					√	√	
		x		x	Carbon dioxide Content					√	√	
		x		x	Exhalation Valve Pull Test					√	√	
		x		x	Exhalation Valve Flow					√	√	
		x		x	Particle Filtration As per EN & BIS					√	√	
		x		x	Total inward Leak					√	√	
		x		x	Clogging Test					√	√	
		x			Compatibility With skin					√		
		x			Head Harness					√		
		x			Field of Vision					√		
x			Visual Inspection									
x			Walking test									
x		x	Cleaning Disinfection					√		√		
x		x	Practical Performance					√		√		

Note : √ - Capable of perform the test as per the method X - Not capable.



SERVICE

We help our customers in understanding and interpret the test result in simple terms. We have comprehensive brochures which provides adequate information on the tests being performed. We can receive your samples on all the seven days of the week.



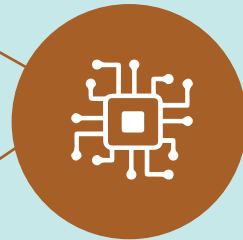
LOCATION

We are strategically located in Tirupur District where thousands of international shipments and couriers come in and out on daily basis. This ensures a seamless connectivity with our customers and associates.



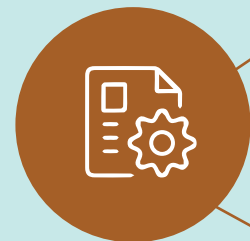
TESTING CHARGES

We offer a very competitive pricing to our customers and there is substantial discounts offered on products being tested for multiple parameter conformity.



TECHNOLOGY & EXPERTISE

The technology adapted by us and the corresponding skill and ability of our team in handling them is at par with the best of its kind.



OPERATION

With a team of professionals having ample experience under their sleeves and guided by a strong system driven process VIRIDIAN TESTING LABORATORY is one of the best managed laboratories in the country.



SATISFACTION

A well received customer who is guided through the process, whose queries are answered as per his understanding and timely service commitment supported with a good communication medium ensures a satisfying experience to any customer.



DRY MICROBIAL PENETRATION EFFICIENCY (ISO 22612/ IS16548)

Dry microbial penetration resistance tester is to assess the penetration resistance through barrier materials of bacteria-carrying particles. It is the recommended testing method for determine the safety of the wearer by testing the protective performance against dry infectious agents when using medical clothing and related protective suit. The standards covered under this testing are ISO-22612, EN-13795, EN-14126



WET MICROBIAL PENETRATION EFFICIENCY (ISO 22610/ IS16549)

Wet penetration testing is to determine the resistance to wet bacterial penetration of surgical drapes, gowns and clean air suits, and relative medical devices. The tester is used for measuring the wet penetration of skin flora through a covering material under mechanical rubbing. The testing results gives an accurate and reliable data for evaluating the final application performance. The standards covered under this testing are EN ISO 22610, EN 14126

PARTICULATE FILTRATION EFFICIENCY (0.1MICRON) (ASTM F 2299/ IS16289)

The TSI Fractional Efficiency Filter Tester can provide data required as per ASTM F2299. It is designed to challenge the filter media with monodisperse aerosol in the range of 15 to 800 nm. It counts the particles with a dual condensation particle counter which enables the user to determine the most penetrating particle size.



PARTICULATE FILTRATION EFFICIENCY (NIOSH - TEB-APR-STP-0057/0058/0059)

The Automated Filter Tester Model 8130 continues to be the best solution for testing particulate respirator filters, disposable filtering face pieces, and a wide assortment of filter media. TSI filter testers have been used in quality control and manufacturing by leading filter and filter media manufacturers and reference test institutes around the world for more than 20 years due to their proven durability and reliability



BACTERIAL FILTRATION EFFICIENCY (BFE) (ASTM F2101/EN14683/IS16288)

Bacterial Filter Efficiency (BFE) Testing system allows the testing of medical face mask, materials and filters according to ASTM 2101, IS 16289, and EN 14683 with Staphylococcus Aureus. This turn-key system provides a quantitative method for determining the filter efficiency of mask materials with a maximum filtration efficiency of 99.9%.



FIT TESTING (INWARD LEAKAGE TEST) (OSHAS -29CFR 1910)

The TSI Porta count is one of the most innovative respirator fit tester which can quantitatively fit test all types of respirators-gas masks, SCBAs, respirators, even N95, P1 and P2 disposable (filtering-facepiece) respirators. the fastest, It is the easiest and best HSE (UK) and OSHA (US)-compliant fit test method.

COMPREHENSIVE TESTING FACILITIES.

CONFIRMATION OF SAMPLE RECEIPT

An email confirmation will be sent to the customer acknowledging the receipt of the sample followed by another email once the received sample has been taken up for testing. We also provide guidance on how the samples need to be submitted along with the respective TRF form.

REPORTING

On completion of the testing procedure the final observations in the form of a report will be emailed to the customer's ID. Our highly customised Laboratory Information Management System (LIMS) offers several reporting styles to support the various need of the customer. A hard copy of the report is sent separately by post to the customer's address.

TERMS

On receipt of the sample for testing a proforma invoice is generated based on the testing requirements of the customer and is sent via email to the customer for their confirmation. Once the proforma Invoice is accepted and confirmed by the customer an Invoice is generated and sent to the customer through email. The invoice will have the details of the number of Samples, types of tests to be performed, standards to be considered for the testing. This transparency helps in the traceability of the cost involved in the testing process.

VIRIDIAN

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