



ITS LABORATORY

(An ISO 9001: 2015, ISO 14001:2015, ISO 45001:2018 Certified Laboratory)
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TEST REPORT

Face Mask Fabric Analysis

Report Code: MS-170420-01
Issued To

Issue Date: 20/04/2020

: JO PHARMA PVT. LTD
B-7/3, SAFDARJUNG ENCLAVE, OPPOSITE DEER
PARK, NEW DELHI-110029

PART A: Particulars of Sample submitted

A.	Sample Description	:	Face mask fabric
B.	Date of Sample Received	:	17/04/2020
C.	Date of Commencement of Testing	:	17/04/2020
D.	Date of completion of Testing	:	20/04/2020
E.	Test Method	:	As per Customer Requirement EN : 14683:2005 (E)
F.	Sample submitted By	:	Customer
G.	Instrument Used	:	Breathing machine, Aerosol Generator, Pressure Probe, LAF, Autoclave etc.

Test Results

1. Mass

S.No.	Test Parameter	Test Method	Unit	Result	Specification
1	GSM	IS:1964:1970	gm/m ²	21.8	30.0

2. Differential Pressure

S. No.	Test Parameter	Test Method	Unit	Result	Requirement
2.	Differential Pressure (Breathing Resistance)	EN 14683	Pa/cm ²	36.7	49.0 max

Remarks: On the Basis of Above Test Results, Sample Meets Requirements of EN: 14683.

3. Splash Resistance Pressure

S.No.	Parameter	Test Method	Units	Result	Limit as per EN:14683
16.	Splash Resistance Pressure	ASTM F-1862-07	mmHg	144	120 minimum

Remarks: On the Basis of Above Test Results, Sample Meets Requirements of EN: 14683.



3. Bacterial Filtration Efficiency (BFE):

S.No.	Name of test Bacteria	Recovered Bacteria After Filtration	Bacterial Before Filtration Through Mask	Percent Reduction compared to Control Sample
1.	<i>Staphylococcus aureus</i> (MTCC 737)	1.1×10^3	2.8×10^5	99.60
2.	<i>E.Coli</i> (MTCC 443)	1.28×10^3	3.27×10^5	99.60
3.	<i>Aspergillus niger</i> (MTCC 282)	1.3×10^3	3.60×10^5	99.63

NOTES: Test Method: ASTM F 2101

Flow rate: 28.3 LPM

Area Tested: 36 cm²

Side Tested: Both Side

Remarks: On the basis of above tested parameter it is concluded that sample having Anti bacterial Filtration Efficiency compared to control sample. So removes bacteria & fungi during process of filtration with more than 99% efficiency.

Checked by

Authorized Signatory