

AN ISO 9001: 2015 CERTIFIED LAB Certificate No : 0913616A







ENVITRO LABORATORIES PVT. LTD.

"Krushna Niwas", 6 Naval Nagar, Mavdi Main Road, Opp. Fulia Hanuman Temple, Rajkot - 360 004 (Gujarat) INDIA.

REPORT TEST

Page 1 of 1

DATE OF ISSUE: 25/06/2020 : EL/O/2006368-A TEST REPORT No.

: Self SAMPLE COLLECTED BY : N95 Mask SAMPLE DESCRIPTION

BRAND NAME:NM	DECLARED VALUE : ND			
QUANTITY	BATCH NO.	DOM	DOE	
50 Pieces				
DATE OF RECEIPT	DATE OF START ANALYSIS	: 23/06/2020		
23/06/2020	DATE OF COMPLETION OF ANALY	SIS : 25/06/2020		

TEST NAME:

Bacterial Filtration Efficiency ASTM F 2101-Standard Test Method for Evaluating the Bacterial Filtration Efficiency (BFE) of Medical Face Mask Material, Using a Biological Aerosol of Staphylococcus aureus

TEST CONDITION:

Staphylococcus aureus ATCC 6538=5 X 10⁵ CFU/ml Inoculums size:

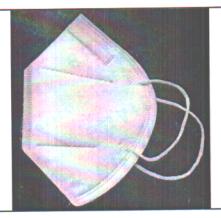
Tryptic soya agar Media Used: Peptone water Dilution medium used: 37 °C for 24h Incubation conditions:

TEST RESULTS

SI No.	TESTS/PARAMETERS	Described by the customer : Face Mask	
1.	Area of test specimen	Facemask	
2.	Sample exposure side	Face side	
3.	Flow rate of aerosol	28.5 L/min.	
4.	Mean particle size of challenging aerosol	3.0 ± 0.3 micron	
5.	Average plate count of positive control	3420	
6.	Average plate count of negative control	0	
7.	BFE of test specification %	98.2	
8.	PFE (Particle Filtration Efficiency) of test Specification %	99.4	
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Result: The sample showed 98.2% bacterial filtration efficiency against Staphylococcus aureus ATCC 6538 when tested according to ASTM F 2101 test method.

SAMPLE IMAGE:



- This report, in full or in part, shall not be published, advertised, used for any legal action, unless prior permission has been secured from The Director, ENVITRO LABORATORIES, RAJKOT.
- The test report pertains to the sample tested.
- Sample not drawn by us.
- All above Parameters are not covered/Not accredited under NABL Scope of Accreditation.

Approved By: Surger

Authorized Signatory

एन्वीट्रो लेबोरेटरीझ प्रा. ली.

खाद्य-खुराक, जल, मृदु (जमीन) एवं पर्यावरण के परीक्षणों के लीए पृथ्थकरण एवं संशोधन प्रयोगशाला ''कृष्णा निवास'', ६ नवलनगर, मवडी मेइन रोड, फुलीया हनुमान मंदीर के सामने, राजकोट – ३६० ००४ (गुजरात) भारत.

Award Winner

इंडरा

IEDRA







Tested By

73599 27274





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TEST REPORT

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TEST REPORT No.

: EL/O/2006368

DATE OF ISSUE: 25/06/2020

SAMPLE COLLECTED BY

: Self

SAMPLE DESCRIPTION

: N95 Mask

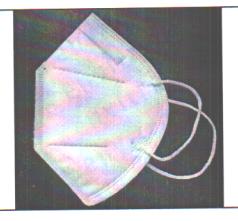
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QUANTITY	BATCH NO.	DOM	DOE	
50 Pieces				
DATE OF RECEIPT	DATE OF START ANALYSIS	: 23/06/2020		
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TEST RESU	LTS				
SI No.	TESTS/PARAMETERS	Test Method	UNIT	LIMIT	RESULTS
BREATHIN	G RESISTANCE				
1.	Inhalation permitted resistance @95 1/min	NIOSH	mbar	3.0 max	1.23
2.	Exhalation permitted resistance @160 1/min	IS 9473: 2002	mbar	3.0 max	1.08

Filter Efficiency as per NIOSH Standard

Summary: This procedure was performed to evaluate particulate filter penetration as specified in 42 CFR Part 84 for requirements on a N95 respirator. Respirators were conditioned then tested for particle penetration against a polydispersed, sodium chloride (NaCl) particulate aerosol. The challenge aerosol was dried, neutralized and passed through the test article at a concentration not exceeding 200 mg/m 3 the initial airflow resistance and particle penetration for each respirator was determined.

According to 42CFR Part 84,64. Pretesting must be performed by all applicants as part of the application process with NIOSH. Results seen below are part of that pretesting and must be submitted to and accepted by NIOSH for respirator approval.



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Approved By:

surger P. R.

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Award Winner Laboratory

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