



Nanotechnology

The environment we live in is full of microorganisms and various particles. These are viruses, bacteria, mite, mold, smog and air pollutants that cause number of allergies and diseases. These particles are invisible to human eye and typically very resistant. The only safe and dependable method is to barr them with a net made of something even smaller than they are. This, until recently unthinkable solution, is provided by nanotechnology working with particles smaller than thousandth of a humain hair. Such a dense net ensu- res exposure of the protected parts of the human body to the environment, provides perfect breathability so the body can breath freely, but the unfrien- dly particles are blocked out. Do what you CAN do.

Your**MASK**
NANOFIBER



Your**MASK**
NANOFIBER



Your**HAND**
SILVER FORCE



Your**WALL**
SMART WAY



Your**POCKET**
CLEVER WAY



YourMASK face mask

The Czech producer of N4H nanotechnologies offers a unique solution for mouth and nose protection with a disposable YourMASK face mask, providing more than 99 % protection against the penetration of unwanted microparticles - viruses, bacteria, mites, mold, smog and airborne dirt. The only reliable method to protect a person from harmful microparticles is to put a net woven from something even smaller in their way. Such solution was impossible until recently, but it is now offered by nanotechnology, working with fibers smaller than a thousandth of a human hair. Such a densely woven net guarantees the protected parts of the human body the necessary contact with the surrounding environment, so the body continues to "breathe" freely, but does not allow unwanted particles to pass through.



Tested by Nelson Laboratories USA

We have been operating in the field of nanotechnologies for more than six years. Declared effectiveness of other „miracle“ solutions that appeared globally in the market in connection with the epidemic Covid19, usually ends up in the first lab or garbage bin. The effectiveness of our masks was tested in April 2020 by the world-renowned Nelson Laboratories, LLC, 6280 S. Redwood Rd., Salt Lake City, UT 84123, USA, and their measured average filtration efficiency is 99.80 % for bacteria and 99.86 % for viruses.

Czech heads, hands, capital ... and hearts

N4H products and all their components were developed in the Czech Republic by the skill of Czech engineers and are created in the hardworking hands of Czech employees in the production starting from raw materials all the way to final products. We believe this has its value in the market.

A pleasant solution

Wearing protective equipment, currently mandatory in the Czech Republic, has become an unpleasant obligation for most citizens at home and especially at work. Our YourMASK is made of the most breathable nanotextile, which retains the properties of utility textiles and at the same time provides protection incomparable to any other barrier protection. We offer two easy-to-wear solutions - not only traditional laces, but also a practical rubber band. We believe that our efforts to find a user-friendly solution to an otherwise unpleasant obligation have not been in vain.



Contact

N4H by SENWORLD, s. r. o.,
Sokolovská 668/163d, 1
86 00 Praha-Karlín
www.n4h.cz

Martin Šiler, CEO
00 420 608 939 331
martin.siler@n4h.cz

Eva Rybková, Export
00 420 777 720 887
rybkova@novitex.cz

Viral Filtration Efficiency (VFE) Final Report

Test Article: N4H YourMASK/10
Study Number: 1279656-S01
Study Received Date: 21 Mar 2020
Testing Facility: Nelson Laboratories, LLC
6280 S. Redwood Rd.
Salt Lake City, UT 84123 U.S.A.
Test Procedure(s): Standard Test Protocol (STP) Number: STP0007 Rev 16
Deviation(s): None

Summary: The VFE test is performed to determine the filtration efficiency of test articles by comparing the viral control counts upstream of the test article to the counts downstream. A suspension of bacteriophage Φ X174 was aerosolized using a nebulizer and delivered to the test article at a constant flow rate and fixed air pressure. The challenge delivery was maintained at $1.1 - 3.3 \times 10^3$ plaque forming units (PFU) with a mean particle size (MPS) of $3.0 \mu\text{m} \pm 0.3 \mu\text{m}$. The aerosol droplets were drawn through a six-stage, viable particle, Andersen sampler for collection. The VFE test procedure was adapted from ASTM F2101.

All test method acceptance criteria were met. Testing was performed in compliance with US FDA good manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.

Test Side: Inside
Test Area: $\sim 40 \text{ cm}^2$
VFE Flow Rate: 28.3 Liters per minute (L/min)
Conditioning Parameters: $85 \pm 5\%$ relative humidity (RH) and $21 \pm 5^\circ\text{C}$ for a minimum of 4 hours
Positive Control Average: 1.9×10^3 PFU
Negative Monitor Count: <1 PFU
MPS: $2.9 \mu\text{m}$



Study Director



James W. Luskin



Study Completion Date



1279656-S01

Bacterial Filtration Efficiency (BFE) Final Report

Test Article: N4H YourMASK/10
Study Number: 1279659-S01
Study Received Date: 21 Mar 2020
Testing Facility: Nelson Laboratories, LLC
6280 S. Redwood Rd.
Salt Lake City, UT 84123 U.S.A.
Test Procedure(s): Standard Test Protocol (STP) Number: STP0004 Rev 18
Deviation(s): None


Summary: The BFE test is performed to determine the filtration efficiency of test articles by comparing the bacterial control counts upstream of the test article to the bacterial counts downstream. A suspension of *Staphylococcus aureus* was aerosolized using a nebulizer and delivered to the test article at a constant flow rate and fixed air pressure. The challenge delivery was maintained at $1.7 - 3.0 \times 10^3$ colony forming units (CFU) with a mean particle size (MPS) of $3.0 \pm 0.3 \mu\text{m}$. The aerosols were drawn through a six-stage, viable particle, Andersen sampler for collection. This test method complies with ASTM F2101-19 and EN 14683:2019, Annex B.

All test method acceptance criteria were met. Testing was performed in compliance with US FDA good manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.

Test Side: Inside
BFE Test Area: $\sim 40 \text{ cm}^2$
BFE Flow Rate: 28.3 Liters per minute (L/min)
Conditioning Parameters: $85 \pm 5\%$ relative humidity (RH) and $21 \pm 5^\circ\text{C}$ for a minimum of 4 hours
Test Article Dimensions: $\sim 175 \text{ mm} \times \sim 180 \text{ mm}$
Positive Control Average: 2.2×10^3 CFU
Negative Monitor Count: < 1 CFU
MPS: $2.9 \mu\text{m}$



Study Director



James W. Luskin

Study Completion Date

01 APR 2020



1279659-S01



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تم تقديمه إلى الخليج من قبل

