

A Revolutionary New Way to Fight Viruses



biomask

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Ten years of research and development have resulted in the Biomask antiviral face mask, which has proven effective at inactivating many tested strains of viruses when they come into contact with the mask. The Biomask is an essential protective device in healthcare today, giving clinicians and patients a level of safety and security never attained until now.

- ✓ Wicks away potentially infectious droplets in seconds*
- ✓ Inactivates 99.99% of viruses tested in 5 minutes of contact including pandemic influenza, H1N1[†]
- ✓ Safe and comfortable for greater user compliance
- Important pandemic tool
- Advanced infection control*



- Inactivates >99.99% of tested influenza viruses on 5 minutes contact. See filligent.com for international, independent lab results.
- * Visit filligent.com for independent test results from internationally recognized laboratories, and our full range of patented, self-sanitizing products.

- This mask does not eliminate the risk of contracting any disease or infection.
- Replace if damaged or soiled with blood or other bodily fluids.
 Do not use if hypersensitive to copper or zinc.
- Ear adjuster may pose a choking hazard to young children if separated from device. Keep away from young children, discard appropriately.
- If mask becomes soiled please change to a new mask as the anti-microbial agents

Tested Pathogens*

SEASONAL

Human (H1N1), A/Brisbane/59/2007

Human (H1N1), A/Wisconsin/10/1998

Human (H1N1), A/NewJersey/8/1976

Human (H3N2), A/Brisbane/10/2007

Human (H3N2), A/Wisconsin/67/2005

Human, B/Florida/4/2006

Human, B/Lee/1940

PANDEMIC

Pandemic H1N1, A/California/04/2009

Human (H2N2), A/2/Japan/305/1957

AVIAN

Avian (H5N1), NIBRG-14

Duck (H5N2), A/Duck/PA/10218/84

Avian (H9N2), Turkey/Wisconsin/1966

SWINE & EQUINE

Swine (H1N1), A/Swine/1976/1931

Equine (H3N8), A/Equine/2/Miami/1963

OTHER

Human (H1N1) A/PuertoRico/8/1934

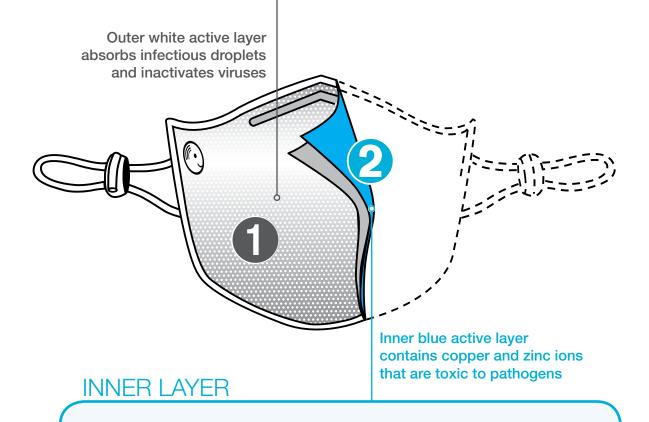
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How the Active Layers Work

The four-layer Biomask has two active layers designed to fight viruses.

OUTER LAYER

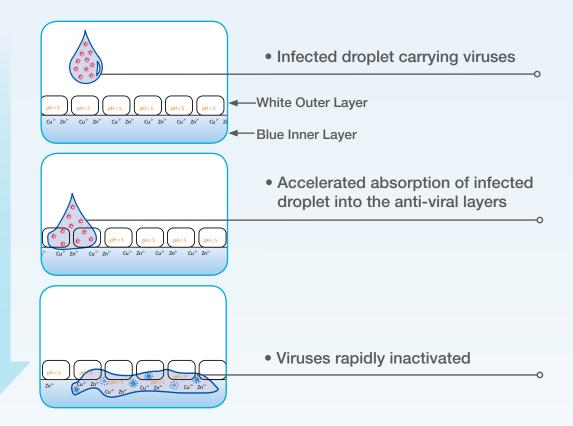
The outer white active layer is treated with a hydrophilic plastic coating that absorbs infectious droplets into and away from the outer surface of the mask and locks them inside. Viruses are inactivated on this outer layer by exposure to citric acid, which creates a low pH environment. This environment causes structural rearrangement of lipids and other structures, resulting in spontaneous denaturation and inactivation of the virus.



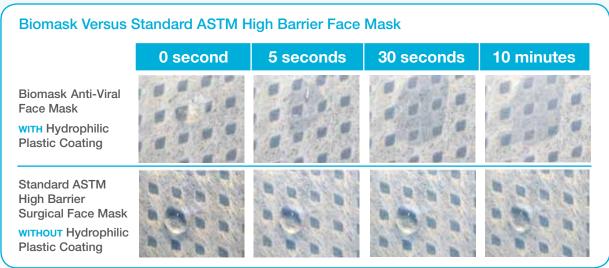
Inside Biomask's blue active layer, positively charged copper and zinc ions attach to influenza viruses by binding negatively-charged groups present on all viruses. Influenza viruses are rapidly inactivated because structures are damaged and biomolecules are denatured.

A Closer Look at Biomask's Active Layers

Progression of Infectious Aerosolized Droplet Into Biomask



Rapid Absorption of Infected Droplets[†]



In the outer white active layer, viruses are rapidly inactivated by exposure to a low pH environment. Rapid absorption ensures the tested influenza A & B viruses are trapped, wicking them away from the outer surface.

The Science Behind BioFriend™ **Anti-Viral Technology**



Benign to Humans — Toxic to Pathogens

The Biomask is powered by BioFriend technology, which is composed of a range of powerful but safe active ingredients that inactivate microorganisms without causing drug resistance.

The active ingredients, citric acid, copper and zinc, are present in almost every cell of the human body. Citric acid is found in the outermost layer of the mask. Copper and zinc, which are found in the second active blue layer, are essential minerals that must be included in daily human nutrition. They are critical to various biological processes, including DNA synthesis, energy production and immune system function. Conversely, viruses cannot process copper and zinc, and are easily killed by small amounts of these compounds.

Biomask Fights Viruses in All Areas of the Hospital

Biomask is recommended for use in any area of your facility where you want to protect staff, patients and visitors. Examples include:

• ICU

Neonatal ICU

Cardiology

Oncology

Maternity

• GI

Isolation wards

Waiting areas

Pediatrics

Emergency

Imaging

Food service

WARNING: This medical face mask cannot stop the transmission of all germs in the air and does not eliminate the risk of disease or illness. Practice good hygiene. Sanitize hands frequently and refrain from touching nose, mouth or eyes. Do not clean or sterilize for re-use.



In addition to Biomask, Medline offers a comprehensive selection of face masks and eyewear:

- Fluid Resistant
- Surgical
- Procedure
- N95 Respirator
- Face Shields
- Safety Glasses
- Fluid Protection Goggles

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Ordering Information

Anti-Viral Medical Face Masks		Performance Characteristics				
Product	Item No.	Bacterial Filtration Efficiency (%)	Particulate Filtration Efficiency (%)	Differential Pressure (mm H ₂ O / cm ²)	ASTM F1862 Synthetic Blood Penetration Resistance (mmHg)	Pkg
	BIOM2001A	≥99	≥99	2.6	160	50/bx, 300/cs
	Standard Flat Mask Pleated with Earloops					
	BIOM3013A	≥99	≥99	2.6	160	25/bx, 200/cs
	Convex-Shaped Mask Adjustable Earloops and Anti-fog Nose Flap					

To learn more about the revolutionary Biomask, contact your Medline representative or call 1-800-MEDLINE.





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