



bio mask™

ANTI-VIRAL MEDICAL FACE MASK

A Revolutionary New Way to Fight Viruses

Bastion House, Hortonwood 30, Telford, Shropshire TF1 7XT

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www.spservices.co.uk





biomask

A Revolutionary New Way to Fight Viruses

Ten years of research and development have resulted in the Biomask anti-viral 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*

Powered by:



† 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.

WARNINGS

- 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 may not be effective.
- This mask does not contain natural rubber latex.
- For use in medical settings only.
- For adult use only.

Tested Pathogens*

SEASONAL

- Human (H1N1), A/Brisbane/59/2007
- Human (H1N1), A/Wisconsin/10/1998
- Human (H1N1), A/New Jersey/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/Puerto Rico/8/1934

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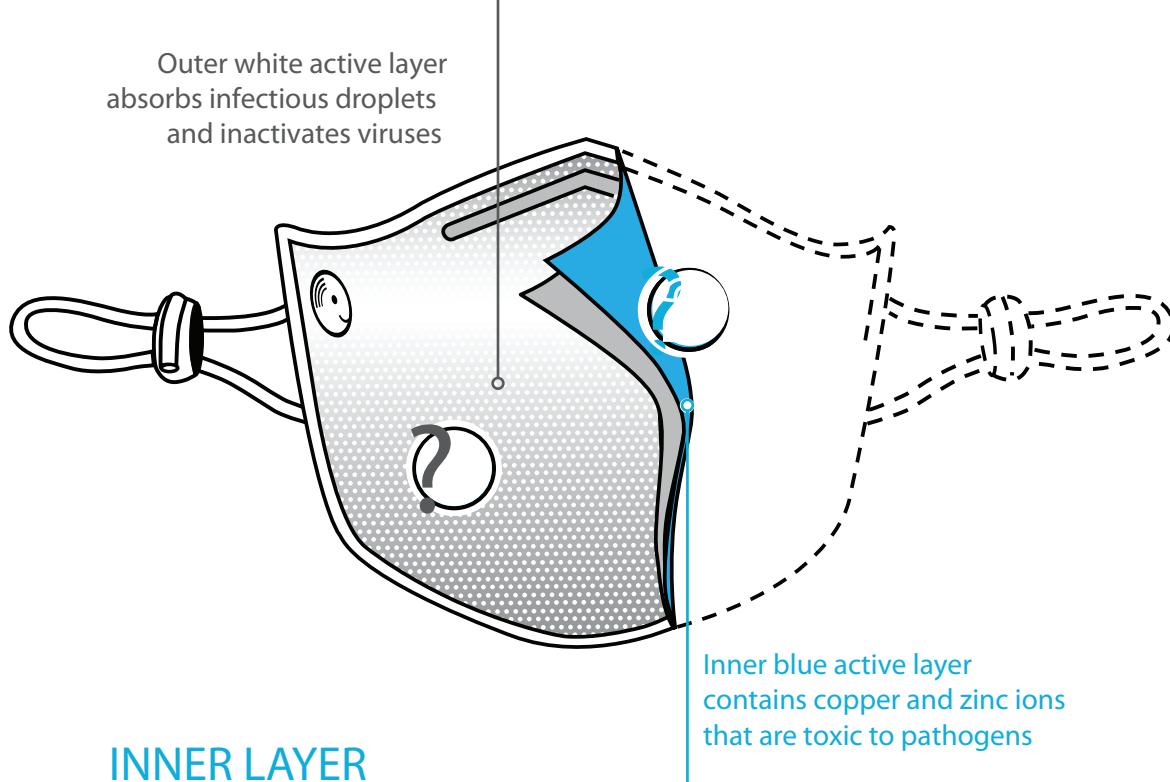
How the Active Layers Work

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

OUTER LAYER

1

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.



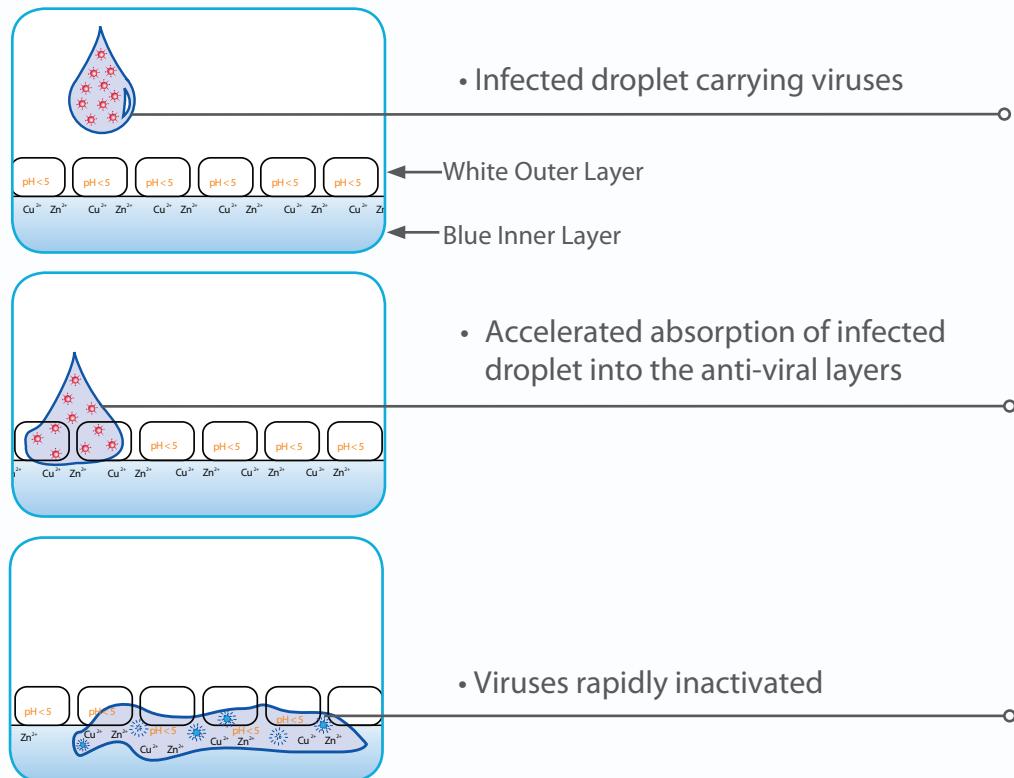
INNER LAYER

2

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 [†]

Biomask Versus Standard ASTM High Barrier Face Mask

	0 second	5 seconds	30 seconds	10 minutes
Biomask Anti-Viral Face Mask WITH Hydrophilic Plastic Coating				
Standard ASTM High Barrier Surgical Face Mask WITHOUT Hydrophilic Plastic Coating				

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 BioFriendTM 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
- Oncology
- Isolation wards
- Emergency
- Neonatal ICU
- Maternity
- Waiting areas
- Imaging
- Cardiology
- GI
- Pediatrics
- 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, SP Services offer a comprehensive selection of face masks and eyewear:

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