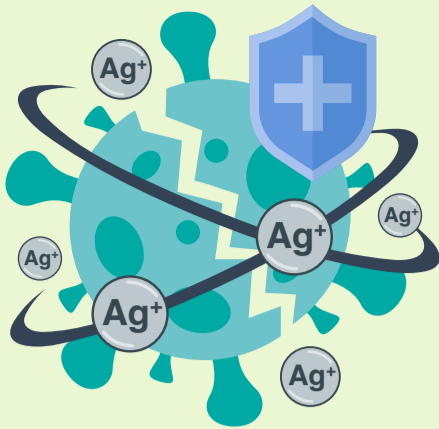


What is Ionic Silver?



Ionic Silver consists of positively charged silver ions designed to be protected from chloride and other salts in the body, ensuring its effectiveness as an antimicrobial agent against a broad spectrum of bacteria, viruses, and fungi. This makes it valuable for various health applications. In wound care, it promotes faster healing by preventing infections.

Stabilised silver ions have high antibacterial activity because they can readily adsorb to most biomolecules (DNA, membrane protein, enzymes, or intracellular cofactors) in bacteria to inactivate their functions.

“ According to researchers at Rice University, in order for silver to be effective in killing bacteria, it has to be in its ionised form. Without ionisation, silver is ineffective against the presence of microbes. Studies show that a silver particle can be up to 7,665 times less effective than silver ions. ”



Why people use Ionic Silver?

The resurgence in the use of silver products reflects both its historical significance and its potential role in modern medicine, especially in the context of **rising antibiotic resistance**. People are increasingly turning to ionic silver as alternatives and the shift is driven by several factors:



ANTIBIOTIC RESISTANCE

Overuse and misuse of antibiotics have led to the development of resistant bacteria. Colloidal and ionic silver do not cause such resistance and remain effective against a broad range of pathogens.



BROAD-SPECTRUM ANTIMICROBIAL PROPERTIES

Silver has long been recognised for its antimicrobial properties, effective against bacteria, viruses, and fungi. It works by disrupting the cellular processes of these microorganisms, leading to their destruction.



VERSATILE APPLICATIONS

Beyond internal use, silver is also used in wound care, surface sanitisation, and even water purification.



HISTORICAL USAGE

Silver was widely used before the advent of antibiotics and is now being revisited due to its effectiveness in situations where modern antibiotics are less effective.

What are the benefits of Ionic Silver?



ANTIMICROBIAL PROPERTIES

Effective against a wide range of bacteria, viruses, and fungi, making it useful for preventing and treating infections.



ENHANCED BIOAVAILABILITY

Ionic silver is easily absorbed and utilised by the body compared to other forms of silver, enhancing its effectiveness.



WOUND HEALING

Promotes faster healing of cuts, burns, and other wounds by preventing infections and reducing inflammation.



IMMUNE SUPPORT

Can boost the immune system by aiding the body in fighting off pathogens more effectively.

ANTI-INFLAMMATORY EFFECTS

Reduces inflammation and soothes irritated issues, which can help in conditions like sinusitis and skin irritations.

WATER PURIFICATION

Can be used to purify water by killing harmful microorganisms, making it safer to drink.



The Ionic Silver Difference

Rice University has conducted significant research on the antibacterial properties of silver, focusing particularly on the form in which silver is most effective.

Key points from Rice University's findings include:

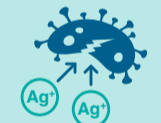
1



Toxicity to Bacteria

Silver ions are highly toxic to bacteria, effectively disabling their enzyme systems, which are crucial for their survival and replication. This toxicity is **much more pronounced with silver ions than with silver nanoparticles**.

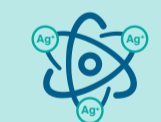
2



Mechanism of Action

The antibacterial **efficacy of silver** is attributed to its ionised form. Silver ions can bind to bacterial cell membranes and intracellular components, leading to cell death. This mechanism is less effective when silver is in particulate form because particles release ions more slowly and less efficiently.

3



Controlled Release

The rate at which silver ions are released from silver particles can be critical. Efficient and controlled release ensures that the ions maintain their antibacterial activity without causing unnecessary environmental harm or resource wastage.

4



Research Implications

These findings suggest a shift in focus towards optimising the ion release from silver-based antibacterial products, rather than solely concentrating on the physical properties of silver nanoparticles.

HEALTHWEST UK

Healthwest Ionic Silver may differ from other ionic silver products in several ways due to the production methods, purity, concentration, and quality control.



Purity: Healthwest Ionic Silver might emphasise high purity, using high-quality water and silver to ensure minimal impurities.



Concentration: The concentration of silver ions could be specifically formulated for optimal effectiveness and safety, potentially differing from other brands.



Production Process: Healthwest might use a proprietary or advanced electrolysis method that ensures a consistent and stable product.



Certification: Healthwest Ionic Silver could be certified by relevant health and safety authorities, ensuring compliance with regulatory standards.



Bioavailability: Designed to maximise bioavailability, ensuring that the silver ions are readily absorbed by the body.