

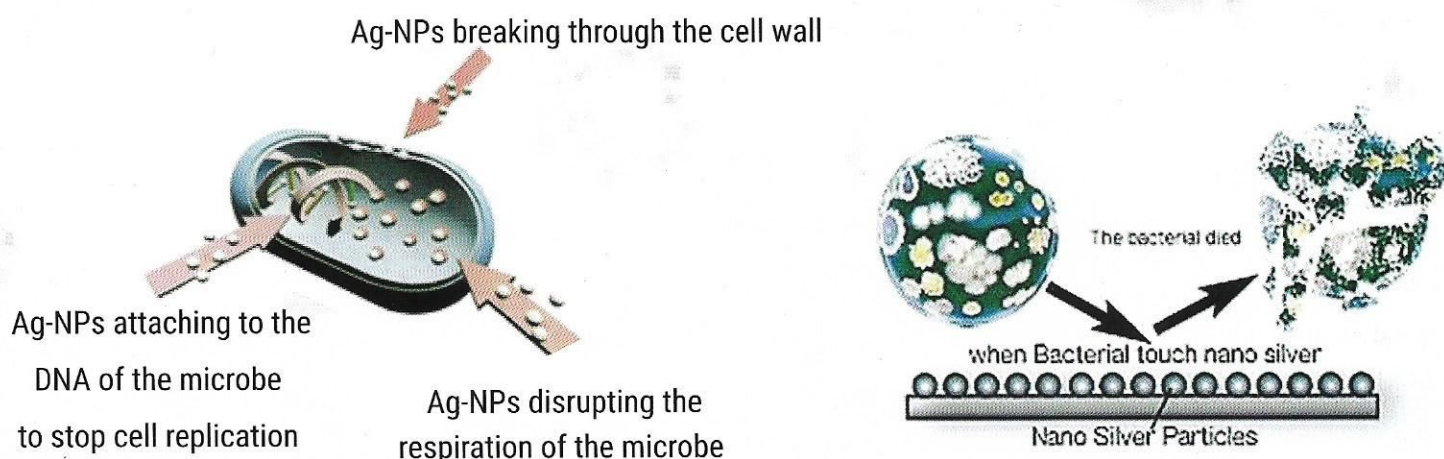


# PROTECSIL<sup>®</sup> NPs

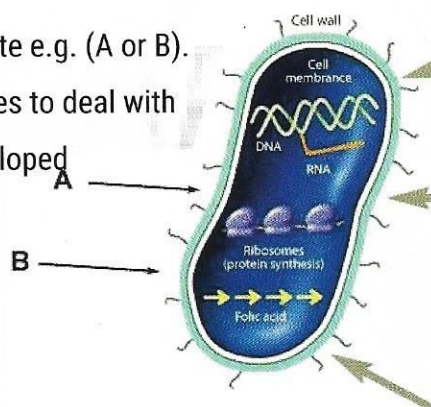
Nano Silver the protective Natural Germicide

## How Silver Nano Particles work

A number of mechanisms have been observed: decrease in silver Nano particles and Ag-NPs accumulation, conversion of Nano silver to its metallic form and increase in anaerobic respiration in Ag-NPs exposed bacteria.

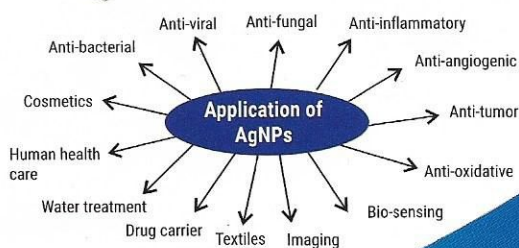


Antibiotic can only attack one state e.g. (A or B). Bacteria have "adapted" themselves to deal with this one site attack and have developed resistance.



Silver-NP acts as contacticidal. Silver-NP can attack anywhere around the bacterial cell wall, so that the bacteria cannot "adapt" and is unlikely to develop resistance.

**PROTECSIL<sup>®</sup> NPs** is an eco-friendly, non-hazardous, multipurpose broad spectrum disinfectant, biocide and used in poultry, aqua and dairy farms. It effectively kills all types of pathogenic microorganisms including viral cells, prevents the resistance build up in Microbes. Silver nanoparticles (Ag-NPs) with its powerful oligodynamic and catalytic effect, is combined with stabilizers to form a complex solution.





# **PROTECSIL NPs**

Nano Silver the protective Natural Germicide

## Target Organisms:

All types of microbes – Yeasts, Moulds, Fungi, Amoeba, Protozoa, Bacteria, and virus some of the targets are listed under and may not be limited to the same:

Bacillus-Species (as Bacillus Anthracis, Anthrax), Bacteriophagus, Fowl Cholera, ECBO viruses (F. Herpesviridae), Hepatitis B, Influenza A, Legionnaires Disease, Listeria Monocytogenes, Methicillin-resistant Staphylococcus aureus (MRSA), Mycodermis, Newcastle Disease (ND), Sporogenesis, Vaccinal virus (F. Poxviridae), Vibrio parahaemolyticus, Vancomycin-resistant Enterococci (VRE), among other common poultry and livestock disease.

## Benefits

- \* Protective and Natural antibiotic that acts as an effective germicide, without any side effects.
- \* Natural, Biodegradable and does not affect the chemistry or quality of the product treated.
- \* Effective against microbial Bio-films. Act as very good de-odorizer
- \* Does not alter the pH, taste, colour or smell of treated product.
- \* Effective in wide water temperatures ranging from 0°C - 95°C.
- \* Free from Chlorine, carcinogenic or mutagenic effect and eco-friendly & user-friendly.

## TOXICITY :

LD<sub>50</sub> 2854 mg/kg of animal body weight. The silver level is well below 180 mcg/person/day permitted by WHO and is safe for animal life.

## Method of Application :

**Topical Application:** To prevent Virus, Bacteria & Fungus, mix 2.5-5 ml of P **PROTECSIL NPs** in 1 L of water and spray in and around the farm and on birds once a day. Spraying in presence of birds 3ml/ltr of water and in empty shed 5ml/ltr of water

\*\*Spraying of **PROTECSIL NPs** doesn't cause any side effects to eyes, nose and skin, unlike conventionally used fumigants.

**Swabbing:** Dilute 10 ml of **PROTECSIL NPs** in 1 L of water and swab the target area to be disinfected.

**Fogging:** Dilute 5-10 ml of **PROTECSIL NPs** in 1 L water can be effectively used for fumigation and fogging for elimination of air borne bacteria, fungi and virus.

**Shelf Life :** is stable for a period of 24 months from the date of manufacturing.

## A Product of :



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EURO Certification (UK) Ltd.



**Presentation : 1Ltr, 5 Ltr , 25 Ltr Jar.**

