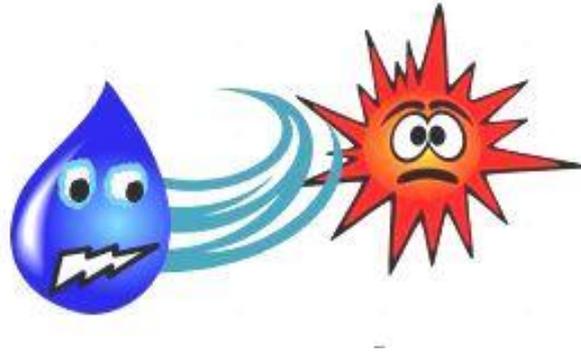# Does Health Tech Ionic Silver kill Good Bacteria?

The gastrointestinal tract is covered by a gel-like layer of mucus. The good bacteria (microbiota) communicate and co-operate living within the mucus [1]. The protective mucus acts as a barrier to microbial threat and contributes to the health of the intestines [2].

Health Tech Ionic silver is water based. The mucus layer is hydrophobic which means it repels water.

The break-down of mucus is a normal part of the mucus barrier turnover. Unfortunately if there are an overabundance of bacteria that degrade the mucus layer the protective function of the mucus is disrupted. The subsequent increase in the pore size of the mucus and decrease in mucus' viscosity (elasticity) allows bacteria to penetrate and migrate into the mucus and cause disease [1, 2].

Health Tech Ionic Silver is able to disrupt pathogenic bacteria and viruses which may aid the defence barrier of the mucus layer.

Microbial cells have a sophisticated internal electrical system that they use in all of their life processes. Positively charged silver ions have the ability to disrupt this process and prevent the microbe from conducting electricity which makes it unable to function or replicate leading to its collapse and death [3].

Health Tech Ionic Silver attacking pathogenic bacteria

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