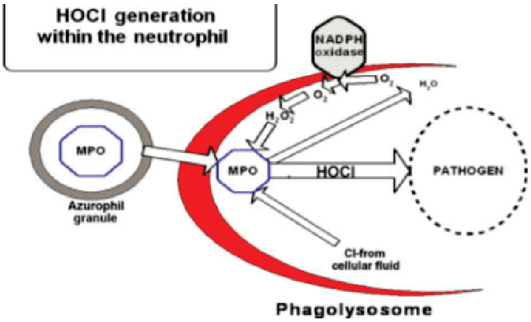
# WHAT IS PURE (*HOCL*) HYPOCLOROUS ACID?

HOCL is naturally produced oxidant by the white blood cells, in the human body. The process is called respiratory burst, whereby pathogen is destroyed on contact.




A schematic representation of hypochlorous acid (HOCl) production during the oxidative burst process. During this process, cells utilize $O_2$ and convert it to hydrogen peroxide ($H_2O_2$) using a mitochondrial-membrane–bound enzyme NADPHase. Then, myeloperoxidase catalyzes the reaction between $H_2O_2$ and $Cl^-$ to generate HOCl. As deregulations take place, the lumen of the phagasome progressively becomes more acidic and leaves the bacterium within a vacuole (phagolysosome) containing MPOse and $H_2O_2$ in a medium containing 0.1 M $Cl^-$ at estimated pH 4 to 6. During this process, conditions are optimal for MPOse-catalyzed generation of HOCl as depicted in this figure.

## How safe is HOCL?

Safe to use on infants
Safe to use on pregnant and lactating women
Safe to inhale
Safe to apply on mucous membranes and eyes
Safe to use with any leading cosmetics

This product is manufactured under a medical license granted by SAPHRA. Pure HOCl is GRAS (generally recognised as safe) and recognised by the FDA.