

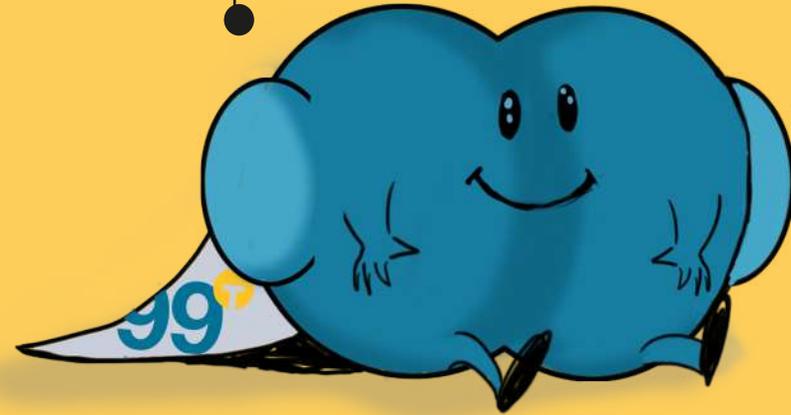


LOOKING INSIDE
THE 99S DISINFECTANT SOLUTION

SUBMICRON DROPLET



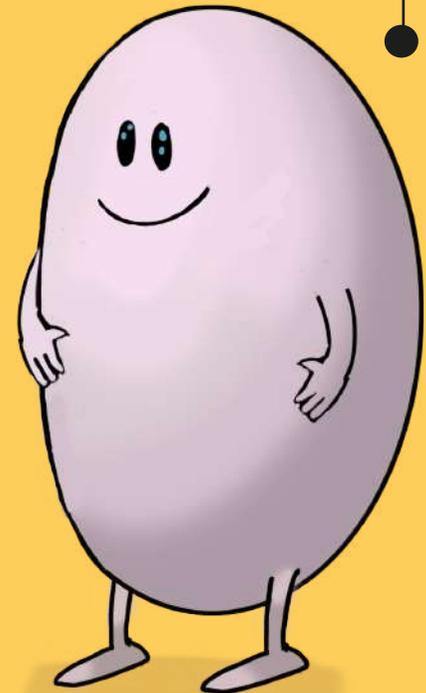
HYDROGEN PEROXIDE



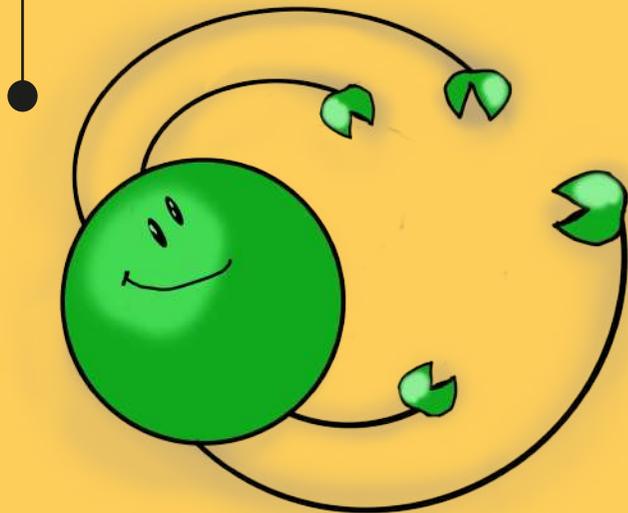
SILVER CATION



OTHER CO-FORMULANTS

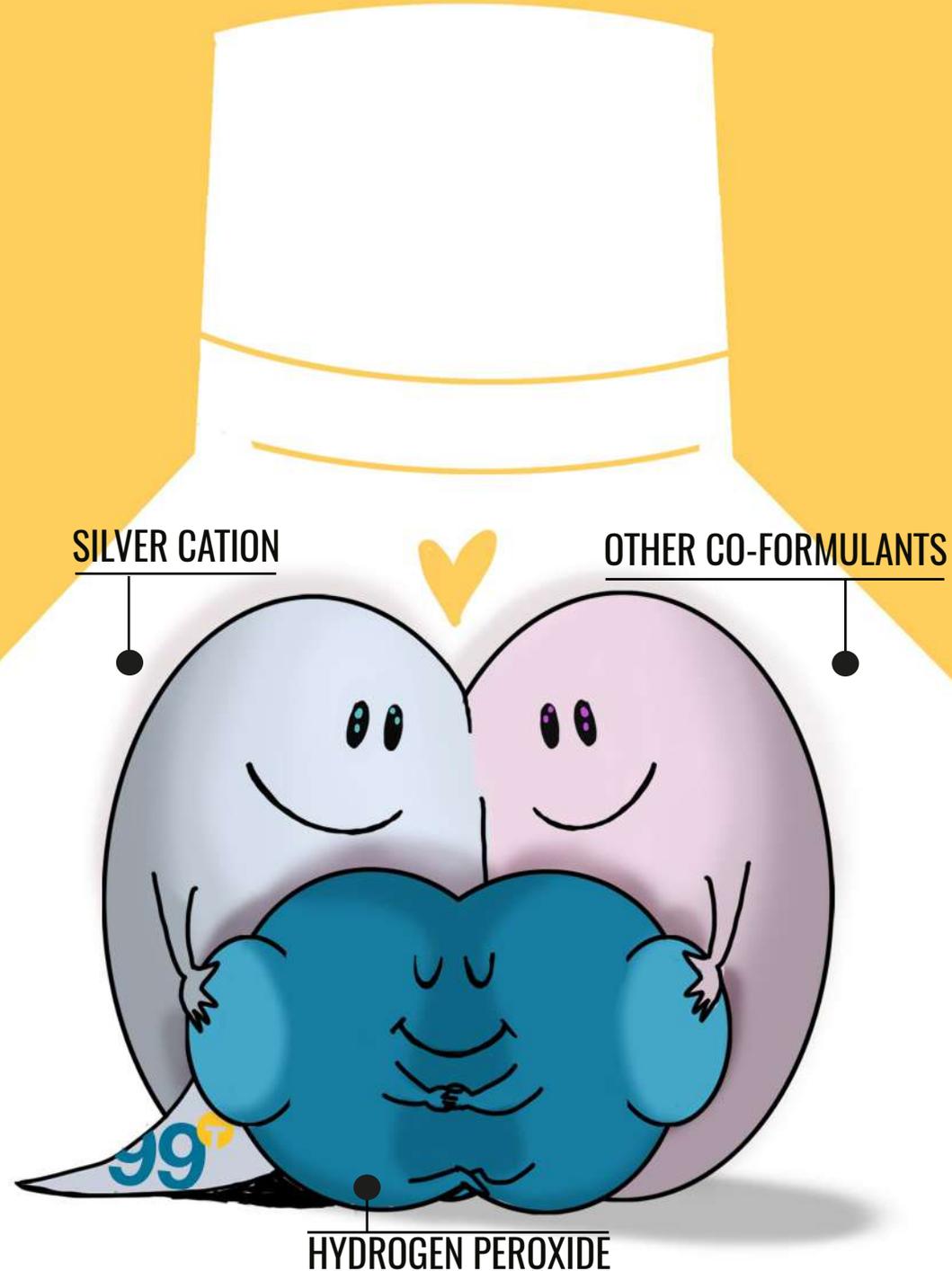


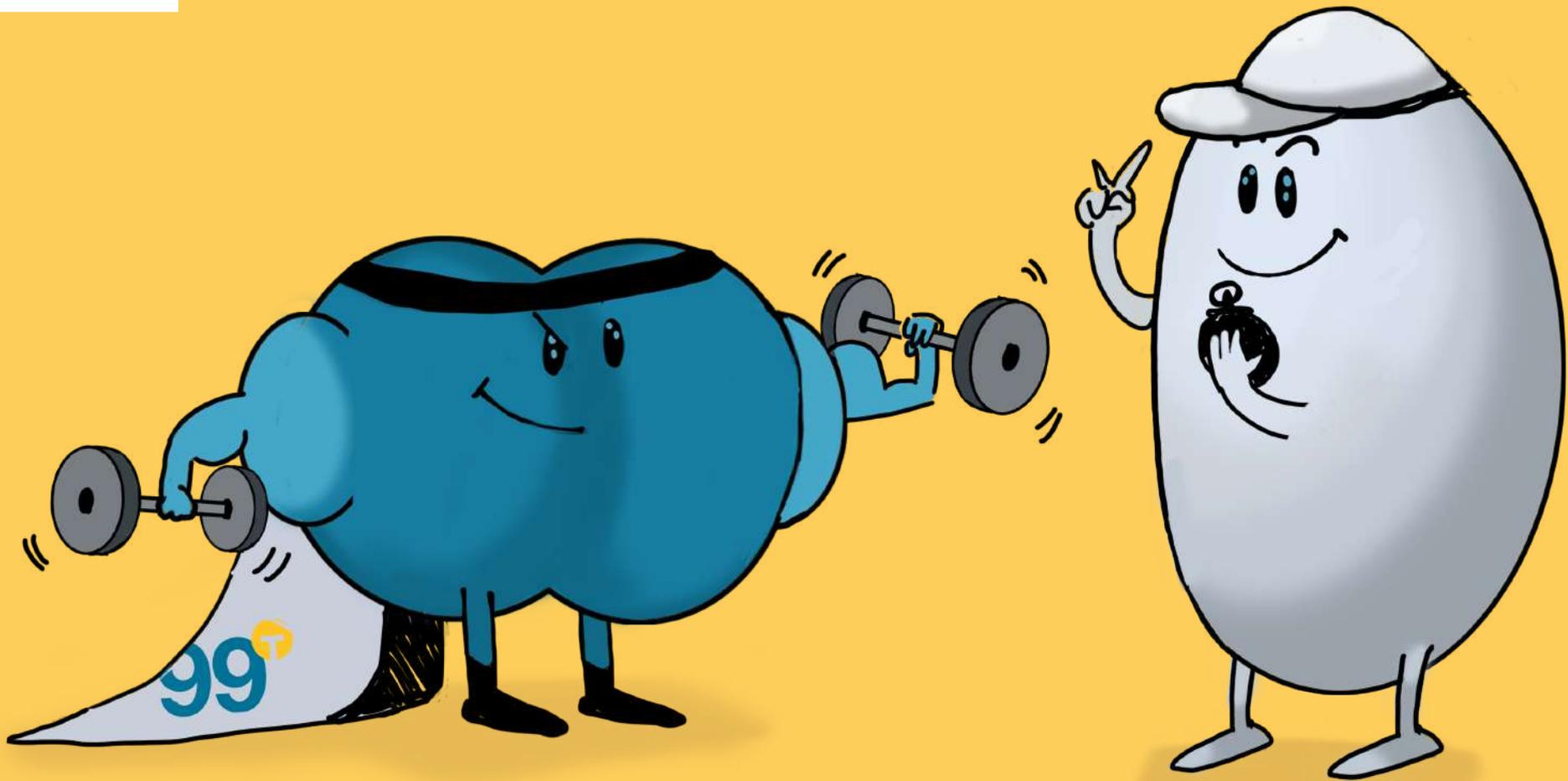
CATIONIC SURFACE ACTIVE AGENT



99S PROPRIETARY CHEMICAL COMPOSITION

99S formula contains hydrogen peroxide at a concentration of 6.6% and selected co-formulants such as for example Ag^+ ions (together with others) that acts as stabilizers, protecting hydrogen peroxide and delaying its natural decomposition into oxygen and water. The presence of these co-formulants gives to the solution a shelf life of up to 36 months.





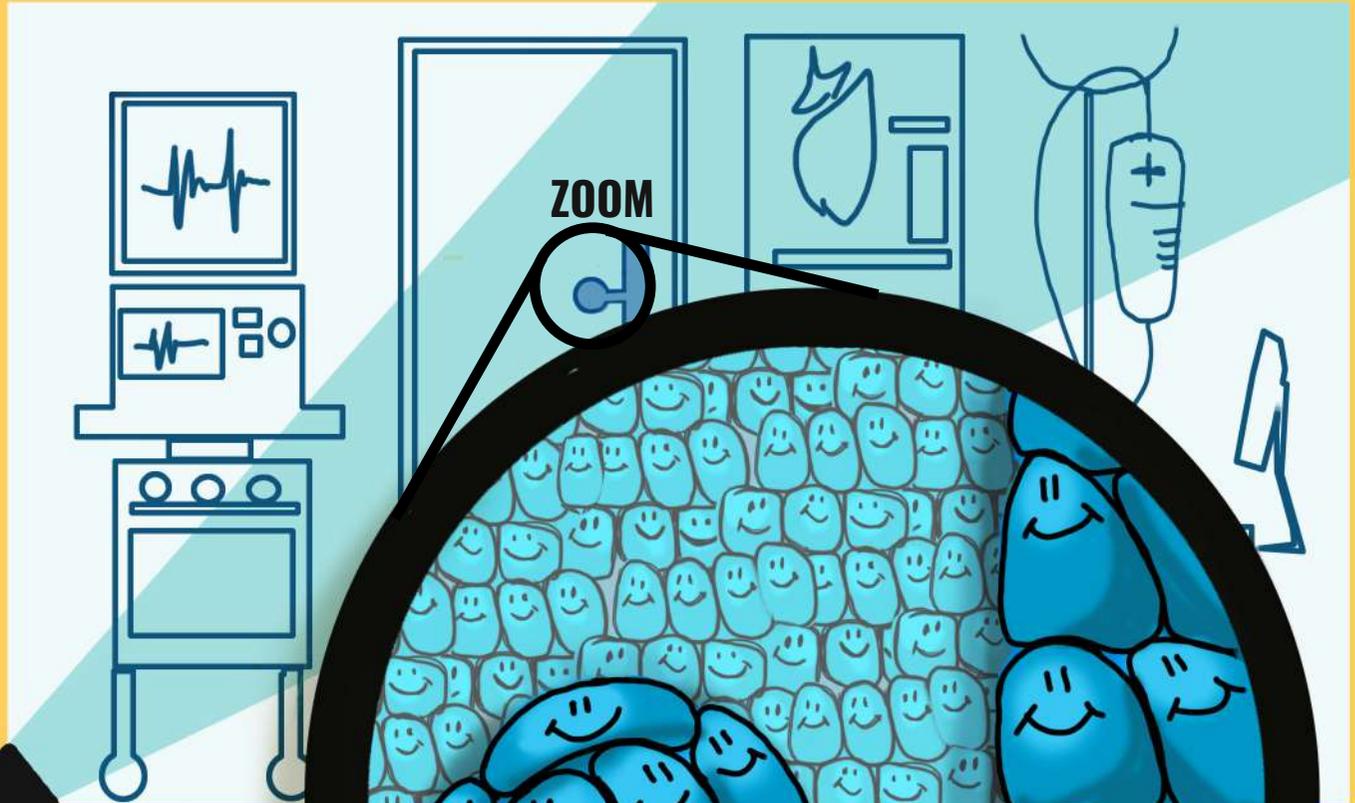
Moreover, some of these stabilizing agents together with other co-formulants, increase the biocidal capability of the hydrogen peroxide, acting in a synergic manner with it, favoring its reaction with the essential biomolecules of the microorganisms and themselves expressing partly a biocidal action.



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99S METHOD OF USE

Thanks to the Modulator Micro-Nebulizer 99MB, the 99S disinfectant solution is converted in an extremely fine mist that (95% of particles $<1 \mu\text{m}$), similarly to a gas, spreads quickly and homogeneously over all surfaces, even the most difficult to reach.

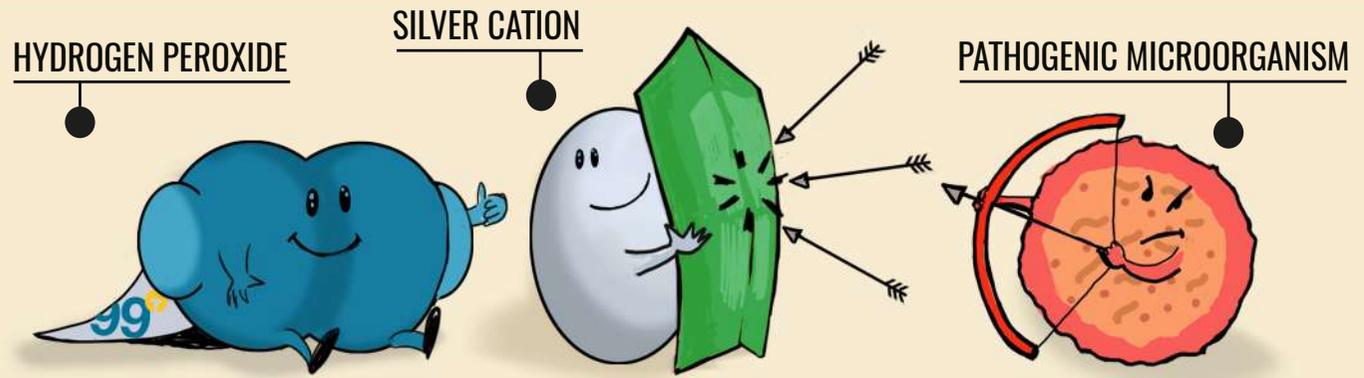


SUBMICRON DROPLET

99S MECHANISM OF ACTION

1

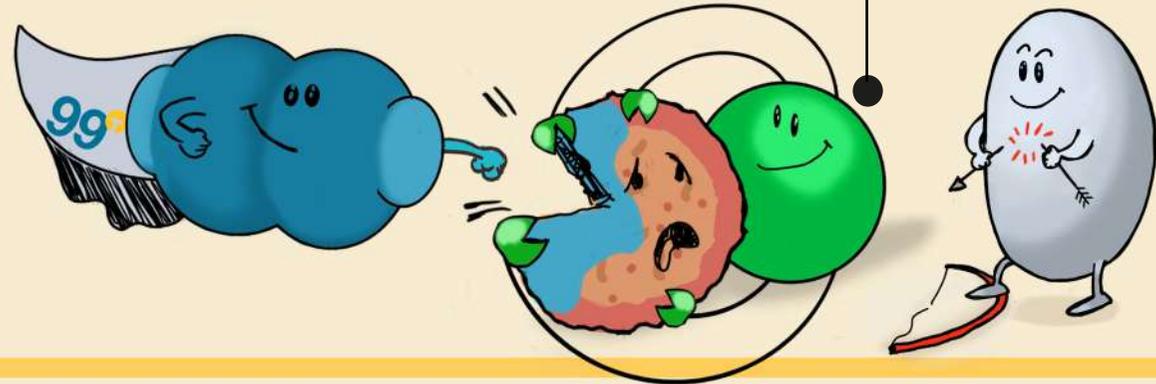
Silver cations work in synergy with the hydrogen peroxide, inhibiting the catalase produced by some microorganisms, avoiding the decomposition of hydrogen peroxide into oxygen and water, which would decrease its effectiveness.



2

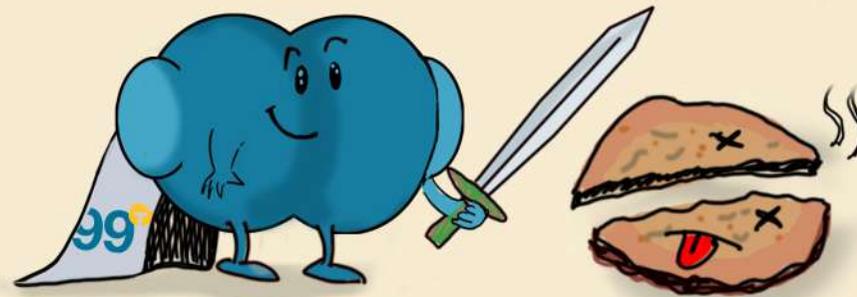
The surface active agent/other selected co-formulants react strongly with the cell walls of the microorganisms, altering their permeability, while silver cations weaken them reacting with their protein structures.

CATIONIC SURFACE ACTIVE AGENT



3

In this way, hydrogen peroxide's killing action is highly boosted and it attacks and oxidizes in a more effective manner all the biomolecules (proteins, lipids, nucleic acids, ecc..) of the microorganisms.



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