

Sentinel-365

Soft & Hard Surface Cleaner & Disinfectant

“The cost of Bio-Securing your work place is even less than your coffee expenses”



ABOUT

- Hydrogen Peroxide & Nano-Silver based disinfectant.
- An effective disinfectant against a wide range of microorganisms, including bacteria, yeasts, fungi, viruses, enveloped virus and spores.
- 30 seconds to 1 minute contact times on most bacteria and viruses.
- No harsh chemical fumes.
- Bleach-Free, Odorless & Colorless.
- One-Step disinfectant cleaner.

SPECIFICATION

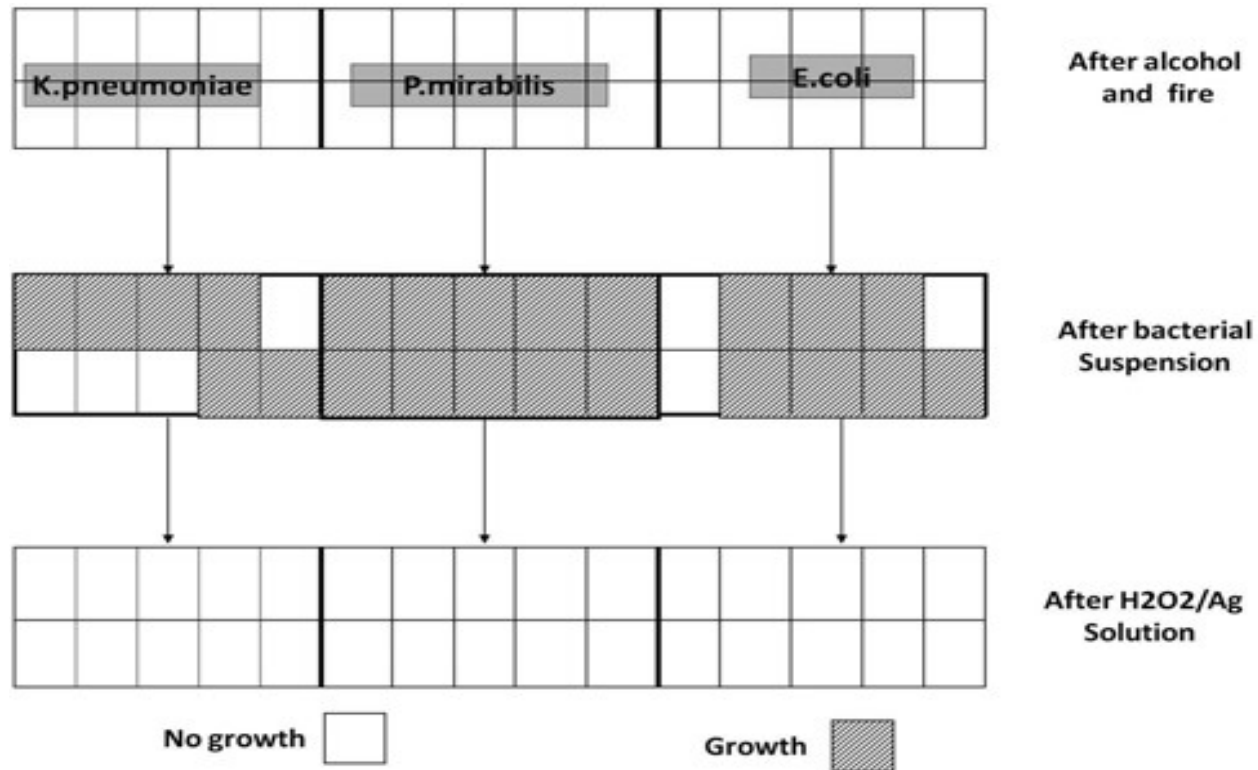
- **Composition:** Hydrogen Peroxide (Stabilized) & Nano Silver (APS <50nm)
- **Appearance:** Clear, Colorless liquid
- **Odor:** Slight
- **pH:** Acidic



ADVANTAGES

- 30 seconds to 1 minute contact times on most bacteria and viruses.
- Ideal for daily use in high-turnover areas.
- **Colorless, Odorless, Non-Staining, Non-tainting**
- Save time with a fast non-bleach disinfectant for your facility.
- One-Step disinfectant cleaner.
- No harsh chemical fumes.
- Non Toxic, Bleach & Aldehyde Free.

Effect of H₂O₂ + Ag⁺ combination on qualitative growth property of bacteria on hard surface (steel)



Schematic of the surface disinfection procedure and results of H₂O₂ + Ag⁺ solution effects on *E. coli*, *K. pneumoniae*, and *P. mirabilis*

Nano Silver Hydrogen Peroxide benefits over Hydrogen Peroxide with Silver Nitrate



Silver has been known for its antimicrobial activity since the Roman times, from storing liquids in silver vessels to treating wounded soldiers in World War I; it has always been a prominent figure in this field.

Nano Silver Hydrogen Peroxide benefits over Hydrogen Peroxide with Silver Nitrate

- Nanotechnology has flourished in the recent times, Silver ions in the size range of 10-100nm are classified as nanoparticles. Gaining attention in the recent years, AgNP (Silver Nanoparticles) can be shaped in accordance to its purpose. From simple spheres to complex diamond ones.
- The conventional silver nitrate form of silver administration finds it hard to cope with the nanoparticles mainly, owing to their small size, nano-Ag particles attach themselves to the cellular membrane interrupting with the permeability and metabolic pathways of the cell. Moreover, their action is not limited to the membranes, but bind to the DNA inside preventing its replication.

Nano silver in Silver Hydrogen Peroxide functions in a variety of ways

Stabilizes the hydrogen peroxide

Activates hydrogen peroxide only after dilution

Destroys further production of enzymes required for cellular metabolism

DNA structure is rearranged and destroyed, rendering microbes incapable of multiply in



APPLICATION

**Santinel-365 will be use 5-10% dilution in RO Water, based on different applications
(To be used for Fogging, Spraying and Mopping)**

General cleaning

Completely wet surface with product and wipe clean. No rinsing needed. Repeat for heavily soiled areas.

To clean and disinfect hard, nonporous surfaces

Spray 6–8 inches from surface until surface is thoroughly wet. Allow to remain wet for contact time listed on label, then wipe. Rinse with potable water for food-contact surfaces. For other surfaces, no rinsing is required.

To sanitize soft surfaces

Hold bottle upright 6–8 inches from surface. Spray until fabric is wet. Do not saturate. Let stand for 30 seconds. Allow to air-dry.



Thank You

Sentinel-365 is a unique chemistry at an affordable price

Roth Specialities India Pvt. Ltd.

(ISO 9001:2015 , ISO 14001 : 2015 & GMP Certified Co.)

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