Supremedic

SILPEROX

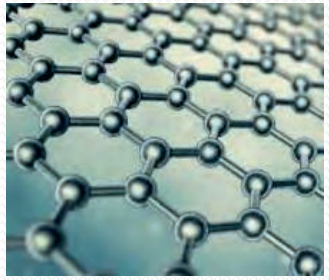
miraculous disinfectant: SILPEROX

harmonic dance of hydrogen peroxide & colloidal silver (nano metallic silver)

What is SILPEROX

The most recent technological invention in disinfection area

based on patented - synergistic blend of



hydrogen peroxide and colloidal (non-ionic) silver,

thanks to the high nano-technology

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What is SILPEROX

Thus,

germicidal potency,
cleaning performance,
and stability
characteristics dramatically increase.

Ensures the best disinfecting and cleaning performance

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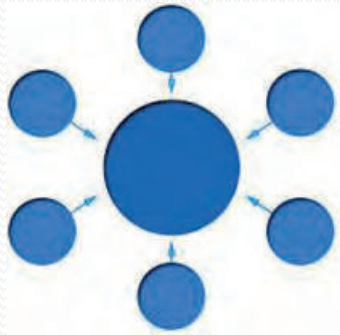
What is SILPEROX

effective against bacteria, viruses, fungi, yeasts,
spores and even mycobacteria

kills a broad spectrum of pathogens in very short time

disinfects before drying on a surface



one-stop biocidal disinfectant product

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What is SILPEROX

odorless,

chlorine free,

alcohol free,

and colorless

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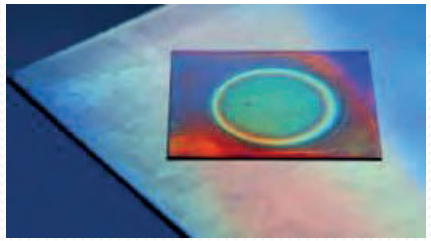
What is SILPEROX

does not irritate the skin and eyes (when it is used at recommended dosages)



Effective at high temperatures (50 °C and more.)

storable up to three years (50 °C and more)

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What is SILPEROX

The active ingredient hydrogen peroxide breaks down into water and oxygen.

Thus,
no toxic components are available following the reaction,
fully biodegradable,
non-residual.
So, it is the most ecological and environment friend disinfectant

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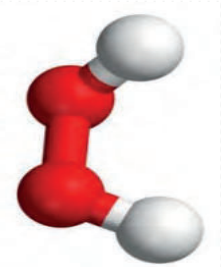
What is SILPEROX

CHEMISTRY



H2O2

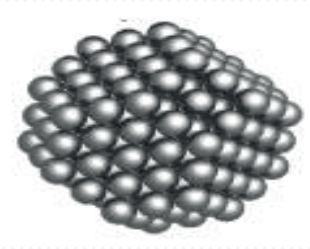
Oxygen bombing

Destroy cell enzymes

Destroy RNA

Destroy cell enzymes

Destroy RNA



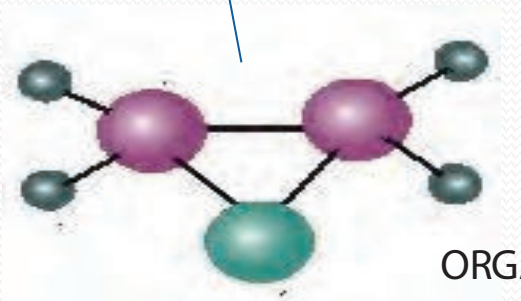
Ag

-

Catalyst
Enzymes

+

SURFACE
PROTECTION



ORGANICS

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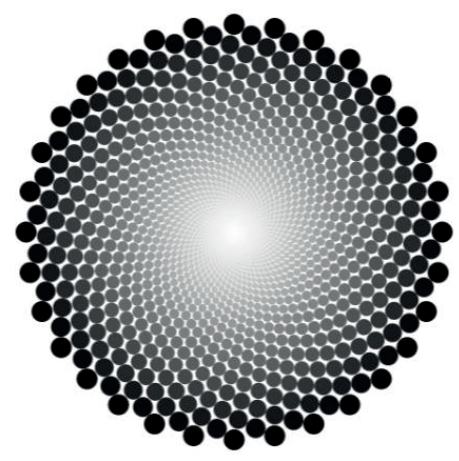
The difference from our competitors:



The others cannot maintain the level of concentration of subcomponents
(hydrogen peroxide and colloidal silver)
as much as what we can.

So, SILPEROX is
much more stable ,more effective than the other
hydrogen peroxide & colloidal silver based products.

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YEDİTEPE UNIVERSITY
FACULTY OF ENGINEERING
DEPARTMENT OF GENETICS AND BIOENGINEERING

TEST RESULTS

ACTIVITY EVALUATION METHOD

Serial dilutions of reference Poliovirus type 1, chat strain were inoculated onto HEp-2 cells and viral titer was calculated using Spearman-Karper method based on the virus dilution which exerted visible cytopathic effect under invert microscope.

RESULTS

	Reference virus	Effect of Silperox			
		5 minute		60 minute	
Virus titer*	5.5	Clean Condition	Dirty Condition	Clean Condition	Dirty Condition
Virus titer with the disinfectant **		1.5	1.5	1.5	1.5
Reduction rate in virus titer ***		4.0	4.0	4.0	4.0

* Logarithmic TCID50 value of virus per ml
** Logarithmic TCID50 value of virus which was exposed to disinfectant at different contact time and conditions
*** Logarithmic TCID50 ratio of virus titer and virus titer with the disinfectant

COMMENT

As tested concentrations of Silperox suspension, 10% and 1%, were found to exert cytotoxicity against test cell culture, the highest concentration of the disinfectant which did not display any toxicity, 0.1%, was used in the experiments. According to the calculations based on test results, 1 % concentration of Silperox disinfectant provided at least 4 log reduction in virus titer in all test conditions (see result table) for 5 and 60 minutes contact time. According to the Antimicrobial Division US EPA standards, disinfectants has to provide minimum 4 log virus titer reduction to be an acceptable virucidal agent.

The results of the test show that Silperox disinfectant possesses 99.99% antiviral activity against Poliovirus type 1 at for 5 and 60 minutes contact time when used at 1% concentration.

It has been accepted that the product, investigated for its antiviral activity against Poliovirus Type 1 which is a relevant RNA model virus according to the TS EN 14476 (March 2007) standard of Turkish Standards Institute (TSE), can display same virucidal effect against practically non-testable enveloped and non-enveloped RNA viruses such as HCV, HIV in case of using one of washing, wiping, impregnation (wetting/immersion), spraying methods at least concentration and contact time defined above.

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SILPEROX on 2019-nCoV

% 1 diluted SİLPEROX is effective
% 99,99 on all kind of RNA based viruses

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