

PATENTED SYSTEM

EC STER Free Radical Generator New Medical Devices Reconditioning System



General Description

EC-STER is a unique system. It represents the highest evolution in the field of instrument/machines sterilization and reconditioning; in fact, it makes it possible to sterilize and to simultaneously cleanse dirty instruments in one single treatment, without need for detergents and enzymes, by simply immersing the instruments for a few minutes in its solution which releases reducing activity free radicals. During the first few seconds of immersion, it sterilizes all the surfaces in contact with the solution, prevents the migration of nested pathogens, de-activating them by simple contact, and by so doing renders null any contamination risk. At the same time, it dissolves and removes the residual biological material and the biofilm.

Field of Use

Sterilization and cleansing for medical device reconditioning.

Active Principle and Mechanism of Action

Free Radical generator.

Transfer of electrons which react with the structure of pathogens, thus causing in them irreversible damage and their immediate destruction. The same mechanism works to remove and dissolve the organic residues and the biofilm with higher activity than any enzymatic complex.

Scope of Action

It acts with fast contact times on:

- gram+ and gram- bacteria
- viruses (including HIV-HBV-HCV)
- tuberculosis mycobacterium
- spores
- fungi
- emergent protein-structured non-conventional pathogens.

EC STER is able to reduce 8 Log₁₀ of vegetative and spore form of micro-organisms.

QUICK RECONDITIONING OF INSTRUMENTS

In a few minutes it sterilizes and simultaneously cleanses the dirty instruments/machines in one single treatment, removing and dissolving the residual biological material and the biofilm.

COMPATIBILITY

It is compatible with all materials, without compromising the integrity of the MD

CHARACTERISTICS AND BENEFITS

It sterilizes and simultaneously cleanses in one single treatment.

It renders null any contamination risk for the operator thanks to its capability to sterilize in just a few seconds and to deactivate pathogens by simple contact with the solution, thus preventing their migration.

The solution sees no reduction of its active title along its whole period of stability.

The single-dose vials make preparing the active solution easier.

The powder dissolves spontaneously in mains water at room temperature, mixing in a few seconds only; the resulting solution takes on a pale yellow coloration, which confirms the beginning of the activity; the yellow color is caused by the electronic tension of the radicals.

The pH basic values and the radical reducing activity prevent instrument integrity to be compromised.

The solution is odorless, releases no toxic fumes, needs neither extractor hood nor any other ventilation system.

The product and the active solution have no sensitizing effect in case of contact with the skin (avoid contact with the eyes and contact of the powder with wet skin).

SOLUTION STABILITY 48 hours

EXPIRATION DATE

Powder validity: 24 months

CODE	DESCRIPTION
5230/50	Box for 15 5.25 g vials (1 vial for 1.5 liters of solution)
5230/07	Box for 15 7 g vials (1 vial for 2 liters of solution)

PREVENTION AND OPERATOR'S SAFETY

A simple contact with the solution de-activates the pathogen micro-organisms, thus preventing their migration and rendering null any risk of contamination. It is odorless and releases no exhalation or irritating fumes.

ECOLOGICAL

The solution is biodegradable and meets the legal limits for disposal in the sewers.

DURATION OF ACTIVITY

Sterilization and cleansing: about 10 minutes (depending on the level of dirtiness).

USABLE DOSE

0.35% - 3.5 g per 1 liter of water.

INSTRUCTIONS



- 01**
Pour the content of 1 5.25 g vial in 1.5 liters of water, or of 1 7 g vial in 2 liters of water. Mains water can be used at room temperature.



- 02**
Mix for a few seconds until complete dissolution of the powder.



- 03**
Wait for the solution to become clear and to take on its characteristic pale yellow color, which confirms to the operator the beginning of the activity (about 5 minutes).



- 04**
Immerse the dirty instruments in the solution and leave them so for 10 minutes. In about 1 minutes, since the surfaces in contact with the solution are already sterile, it is possible, while avoiding contamination risks, to perform the usual maneuvers to ease solution penetration in the deepest cavities to facilitate the disintegration and removal of the residual biological material. (EC STER does not contain surfactants).



- 05**
Remove the instruments. Rinse and dry them using sterile techniques.



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