# **DIAL** free radical generator

## The most innovative and effective cold sterilization system



**(€** 0546

#### **FAST**

It cold sterilizes denaturing the protein structure of pathogenic germs in few seconds.

### **COMPATIBLE**

It does not damage the instruments.

#### SAFE

Totally odourless, it does not produce irritating exhalations or vapours.

### **ENVIRONMENTALLY FRIENDLY**

The spent solution is biodegradable and complies with sewer discharge limits.

#### **OVERVIEW**

**DIAL** is an absolute innovation in sterilization processes; it enables very fast and effective treatments, while not damaging the instruments and guaranteeing safe protection for the operator and the working environment.

#### **FIELDS OF APPLICATION**

Fast sterilization of heat-sensitive instruments, metal instruments, fibre-optic instruments and daily-use medical devices.

# ACTIVE SUBSTANCE AND MECHANISM OF ACTION

Free radicals with reducing action in basic-pH aqueous solution.

Transfer of electrons that generate chemical reactions with irreversible damages to the structure of pathogenic germs, which are destroyed immediately.

#### **POWDER COMPOSITION**

Buffered oxidizers + activators; they generate a flow of free radicals that can amplify and self-maintain, preventing any reduction of the active substance throughout the stability period.

### **ACTION SPECTRUM**

Fast and safe action on all pathogenic germs.

# In 60 seconds of contact DIAL acts on:

- gram+ and gram- bacteria
- viruses (including HIV-HBV-HCV)
- Mycobacterium tuberculosis
- •spores
- •fungi

In 60 seconds it can eliminate  $8\log_{10}$  of micro-organisms in vegetative and spore form.

#### **CHARACTERISTICS AND BENEFITS**

#### It sterilizes with a 60-second contact.

The high concentration of free radicals and their ability to amplify and self-maintain in chain reaction enables to perform several sterilizing treatments using the same solution.

- The single-dose vial makes dosage very easy in order to prepare the active solution.
- The powder spontaneously dissolves in ambient temperature tap water by mixing only few seconds. The resulting solution becomes light yellow as a result of the radicals voltage. That is when the operator can start the sterilization.
- The solution does not damage the devices used as the basic pH values and the reducing action of the radicals prevent any damage to instruments.
- The solution is odourless, does not release toxic vapours and does not need hoods or other ventilation systems.
- The powder and the active solution are not sensitising in case of skin contact (avoid eye contact and contact of the powder with wet skin).
- Instruments treated with **DIAL** do not require usual cleaning (free radicals inactivate immediately in contact with air).

**SOLUTION STABILITY:** 48 hours.

#### **DOSAGE**

0.25% - 5 g for 2 litres of water

#### **INSTRUCTIONS FOR USE**



01

Pour the content of 1 vial (5 g of powder) into 2 litres of water (ambient temperature tap water).



02

Mix for a few seconds until the powder fully dissolves.



03

Wait for the solution to become clear and light yellow. Now the operator can start the activity (about 5 minutes).



**N**4

Fully dip clean and dry instruments; remove them after 1 minute; dry with sterile technique.

**NB:** DIAL does not contain surfactants; any usual movement to facilitate the penetration of the liquid in the cavities or roughness is appropriate after 1 minute of immersion, in the absolute absence of infectious agents. Do not use aluminium containers.

#### **EXPIRY**

Powder effectiveness: 24 months

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CODE

**DESCRIPTION** 

20/05 1 box: 15 x 5 g vials

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