

# Total-Core

Photodynamic Therapy  
(PDT) Products



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**FotoCore-I**  
**FotoCore-T**  
**FotoCore-M**

# Overview: Photodynamic Therapy (PDT)

Photodynamic therapy (PDT) is a widely used modality in the management of oral and dental diseases. The treatment is a two-step process: a photosensitizing agent (a dye such as methylene blue, toluidine blue, or indocyanine green) is applied to the target site, followed by irradiation with a light source — laser or LED — at a specific wavelength. Upon light activation, the dye generates Reactive Oxygen Species (ROS), which induce irreversible damage to bacterial cell membranes and DNA, effectively eliminating microorganisms without contributing to antibiotic resistance.

## Indications

- Reduction of bacteria in dental carious lesions prior to restorative treatment
- Decontamination of implant surfaces and surrounding tissues
- Management of oral fungal infections (candidiasis) in immunocompromised patients
- Intraoral infections and pre-surgical oral decontamination
- Treatment of periodontal pockets — as an adjunct to scaling and root planing
- Bacterial reduction in infected root canals (endodontic PDT)
- Treatment of periodontal pockets and tissues



# FotoCore-I



## FotoCore-I Indocyanine Green (ICG) Solution

**FotoCore-I** is an antibacterial photosensitizing agent containing indocyanine green dye at a concentration of 1 mg/mL. When activated by laser irradiation, it exerts bactericidal effects against all gram-positive and gram-negative bacteria. In addition to its photodynamic action, this product can serve as an alternative to conventional antibiotics for the management of oral and dental infections, while also counteracting the emergence of antibiotic-resistant bacterial strains.

### Kit Contents

- 1 mg indocyanine green dye (lyophilized)
- 1 cc sterile water for injection (diluent)
- 1 × 1 cc syringe
- 1 gray delivery tip
- 1 blue delivery tip

### Product Reference Table

Model	Cat No.	Volume
FotoCore-I	ICG-10	3 cc

# FotoCore-T

Toluidine Blue Solution

# FotoCore-M

Methylene Blue Solution



**FotoCore-T** and **FotoCore-M** are photosensitizing solutions containing toluidine blue and methylene blue dyes, respectively, each at a concentration of 100 µg/mL.

## Kit Contents FotoCore-T

- 3 × 1.2 cc syringes of toluidine blue dye
- 6 intraoral delivery tips

## Kit Contents FotoCore-M

- 3 × 1.2 cc syringes of methylene blue dye
- 6 intraoral delivery tips

## Product Reference Table

Model	Cat No.	Volume
FotoCore-T	TB-25	1.2 cc
FotoCore-M	MB-25	1.2 cc

## Regulatory Compliance

All PDT products are manufactured by NovaTebPars in accordance with ISO 13485:2016. These products hold CE certification from the European Union and are licensed by the Iranian Food and Drug Organization, Ministry of Health.



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