

Instruction for use



COMPOSITION:

Each ampoule of PROVEDYE® contains 10mg of **Methylene Blue (Proveblue®)** diluted in 2ml of water solution for injection.

INDICATIONS:

Visualization aid for surgical procedures such as:

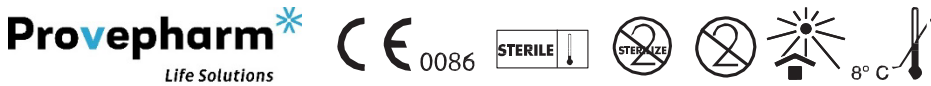
- **Delineation of tissues and operative pieces,**
- **Seal test for sutures, detection of leaks,**
- **Fistula detection.**

METHOD OF ADMINISTRATION AND DOSAGE:

A preoperative assessment is recommended before using PROVEDYE®. PROVEDYE® may be diluted in water (for oral use only) and in sodium chloride (NaCl) 0.9% solution and must be used immediately after dilution. The PROVEDYE® dilution and volume to be administrated depends on the destination and size of the area to be coloured. PROVEDYE® could be diluted until 0.01%. PROVEDYE® may be placed in contact with the anatomic structure after dilution. PROVEDYE® can also be injected in the light of certain organs, or placed in contact with the epithelium of the organ via the existing natural orifices. PROVEDYE® can also be administered orally after dilution.

CONTRAINDICATIONS:

- Do not administrate PROVEDYE®:
- in case of known hypersensitivity to the methylene blue or to any other thiazine dyes,
 - in case of immediately, previous or ongoing treatment with Selective serotonin reuptake inhibitors (SSRIs), bupropion, buspirone, clomipramine, mirtazapine and venlafaxine,
 - in case of Pregnancy or breastfeeding PROVEDYE® should be avoided,
 - in case of Glucose-6-Phosphate Dehydrogenase deficiency.
- In case of moderate or severe renal disease patients must be closely monitored.



SPECIAL PRECAUTIONS FOR USE

(to keep in the operative theatre)

PROVEDYE® 0.5% 2ml - Sterile solution.

Preparation for local or oral administration. Do not inject PROVEDYE® in intravenous, subcutaneous, intrathecal, intra-amniotic or intraocular injection. PROVEDYE® may be diluted in water (for oral use only) or in sodium chloride (NaCl) 0.9% solution and must be used immediately after dilution. PROVEDYE® could be diluted until 0.01%. Additional information on the way in which PROVEDYE® can be administered is provided in the Instructions for use. Use immediately after opening. Any unused product or waste material should be disposed of in accordance with local requirements.

| | USE OF PROVEDYE® | METHOD OF ADMINISTRATION | FIS-TULA | LEAK-AGE | DELIN-EATION |
|--------------------------|---|---|----------|----------|--------------|
| URO-GYNECO SURGERY | <ul style="list-style-type: none"> • Ureterovesical fistula detection • Vesicovaginal fistula detection | <ul style="list-style-type: none"> > Via a urinary catheter > Into the vagina during a cystoscopy (200 mL of diluted ProveDye®) | X | | |
| | <ul style="list-style-type: none"> • Colo-vesical fistula detection • Rectourethral fistula detection | <ul style="list-style-type: none"> > Via an urinary catheter > Via an urethral catheter | | | |
| | <ul style="list-style-type: none"> • Ureter leakage detection • Vesicourethral anastomosis detection | <ul style="list-style-type: none"> > Via a urinary catheter (5 mL of diluted ProveDye® in normal saline solution) | | X | |
| | <ul style="list-style-type: none"> • Identification of the processus patent vaginalis (PPV) and prevention of hydrocele • Localization aid of tunical and urethral tears in corpora cavernosa | <ul style="list-style-type: none"> > In hydrocele (between tunica vaginalis and albugina) (0.6-6 mL of ProveDye®) > Into the corpora cavernosa via the urethral meatus | | | X |
| GASTRO-DIGESTIVE SURGERY | <ul style="list-style-type: none"> • Anal fistula detection • Colo-vesical fistula detection • Rectourethral fistula detection • Oesophagial fistula detection | <ul style="list-style-type: none"> > Via an external catheter > Via an urinary catheter > Via an urethral catheter > Via oral administration (4 mL of ProveDye® in 30 mL of water) | X | | |
| | <ul style="list-style-type: none"> • Colon leakage detection • Gastric leakage detection • Bile leakage detection | <ul style="list-style-type: none"> > Via a rectal catheter (1000 mL of normal saline solution containing 20 mL of ProveDye®) > Via a nasogastric tube > Via a catheter (4 mL of ProveDye® in 20 mL of normal saline solution) | | X | |
| | <ul style="list-style-type: none"> • Pancreatic leakage detection • Esophagus and lung leakage detection | <ul style="list-style-type: none"> > Local administration and via oesophageal catheter (4-40 mL of ProveDye® diluted in 20-1000 mL of water or normal saline solution) | | | |

WARNINGS:

Do not inject PROVEDYE® intravenously, subcutaneously, intrathecally, intra-amniotically or intraocularly. Do not use PROVEDYE® if the solution is colourless.

Do not use a damaged ampoule of Provedye®.

PROVEDYE® is for single use only: discard any remaining solution after opening.

In case of re-use of PROVEDYE®, there is a risk of loss sterility due to potential contamination of the sterile solution (it is considered as a decrease of technical performance).

PROVEDYE® should be disposed of in clinical waste.

PRECAUTIONS:

PROVEDYE® must be used by a healthcare professional.

The wearing of gloves is recommended for users.

PROVEDYE® must be used immediately after opening or dilution.

Protective measures against exposure to strong light, including that within instruments such as pulse oxymeters should be taken, because there is a risk of cutaneous photosensitivity reaction.

ADVERSE EFFECTS:

- Gastrointestinal: nausea, vomiting, diarrhea, abdominal pain, blue colour of faeces and saliva.
- Hematologic: hemolysis (in glucose-6-phosphate dehydrogenase deficiency, or high doses), methemoglobinemia (after high doses), hyperbilirubinemia.
- Cardiovascular: hypertension, hypotension, arrhythmia, chest pain.
- Body as a whole: profuse sweating.
- Dermal: rash (blue macules, severe burning pain), skin discoloration, urticaria, increased sensitivity of the skin to the light (photosensitivity).
- Nervous system: headaches, dizziness, mental confusion, anxiety, tremor, fever, aphasia, agitation; serotonin syndrome when certain medicines to treat depression or anxiety have been taken.
- Administration site: thrombophlebitis, (resulting from high doses, if not adequately diluted – not more than 350 mg of methylene blue should be diluted in each 500 mL of infusion fluid), necrosis (if extravasation occurs).
- Renal: blue colour of urine.
- Respiratory, thoracic and mediastinal: dyspnea, tachypnea, hypoxia.
- Ophthalmic: mydriasis.
- Immune: anaphylactic reaction.
- Oral administration may cause gastrointestinal disturbances and dysuria.
- Use of methylene blue for endoscopic tattoo has been associated with vascular necrosis, mucosal ulceration, mural necrosis, extramural fat necrosis and inflammatory changes in the colon.

STORAGE:

Do not refrigerate PROVEDYE® under 8°C or freeze.

Keep the ampoule in the original package to protect it from light.

CONDITIONING:

2 ml ampoules, in packs of 5 or 20 ampoules.

PUBLICATION DATE :

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|-------------------|--|--|----------|----------|--------------|
| GENERAL SURGERY | • Delineation of cysts | ➢ Directly into the cyst (0,2 mL of ProveDye®) | | | X |
| BREAST SURGERY | • Visualisation aid during transaxillar endoscopy • Visualization aid for nipple discharge | ➢ At the infra-mammary fold (1-2 mL of ProveDye®) ➢ Directly into the breast duct (2-6 mL of ProveDye®) | | | X |
| ENDOCRINE SURGERY | • Identification of the parathyroid glands, recurrent nerves and inferior thyroid arteries | ➢ Local administration (1 mL of ProveDye®) | | | X |
| ENT SURGERY | • Preauricular sinuses (PAS) and branchial sinuses fistula (BSF) detection • Tracheoesophageal/Esophagorespiratory fistulae detection | ➢ (2-6 mL of ProveDye®) ➢ Via an endotracheal tube during a bronchoscopy | X | | |
| | • Stain of temporalis fascia graft | ➢ Directly into the graft (2 mL of ProveDye®) | | | X |