



FISHopt® FISH fixation solution

Fixation of microbiological samples



The fixation solution FISHopt® is used in microbiological diagnostics for the fixation of samples of human and other origin. FISHopt® allows microbiological samples, for example tissue samples, to be analyzed in microbiological diagnostics by fluorescence in situ hybridization (FISH) and/or nucleic acid amplification techniques (Sanger sequencing or microbiome analysis).

FISHopt® contains a blue pearl to ensure optimal quality standards.

Principle

Effective fixation and permeabilization of the microorganisms are crucial for optimal FISH probe hybridization to their target structure. In addition, the ribosomal RNA (rRNA) has to be protected against RNase degradation.

Optimal fixation allows
 - excellent probe penetration throughout the entire sample,
 - maximal preservation of the in situ FISH-target structure (for example rRNA),
 - effective preservation of the in situ cell and tissue integrity both for sample and microorganisms,
 - optimal visualization of microorganisms and histological details.

FISHopt® is optimized for microbiological FISH and contamination-free nucleic acid amplification (PCR).

Sample material

Suitable for FISH and PCR analysis are microbiological solid or liquid samples, such as tissue, devices or cultures. Paraffin-embedded samples can be fixed after de-paraffination.

Reagents

Art. 1 FISHopt®

No additional reagents are required for fixation.

Sample preparation

Samples must be taken by trained personnel. Fixation should take place directly after sampling.

Preparation of reagents

FISHopt® is ready to use. Ideally, FISHopt® is kept for 1 hour at 2-10°C before use.

Fixation

The sample should be added gently to the fixation solution, so that FISHopt® covers the entire sample. Ideally, diagnostic samples are fixation directly in the operation theatre

The sample to FISHopt® ratio should exceed 1:10 (w/v).

Depending on the sample volume, the minimum fixation duration should not be less than 12 hours. Samples should not be kept in FISHopt® longer than 3 months to prevent a too strong crosslinking of the microorganisms and the tissues.

Fixed samples should be stored at 2-10°C.

Diagnostics

Diagnoses must be given by authorized and trained personnel only. Please adhere to valid nomenclature. Additional tests are to be selected and carried out by accepted methods with suitable controls to exclude false results. The microscope used needs to comply with the requirements for a medical-diagnostic laboratory.

Storage

FISHopt® is to be stored at +15°C to +25°C. Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Protect from sunlight.

Shelf life

FISHopt® can be used until the indicated best before date. The tubes need to be properly closed.

Capacity

Each FISHopt® tube is sufficient for one sample. Please adhere to the fixation instructions.

Usage instructions

For professional use only.

Usage only for trained personnel. Please adhere to the national safety and quality control regulations. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep container tightly closed. Keep away from sources of ignition – No smoking. Take precautionary measures against static discharge. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Use barrier cream. For precautions, see MSDS.

Disposal

This product and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulation. Do not empty into drains.

Additional reagents

none

Hazard identification

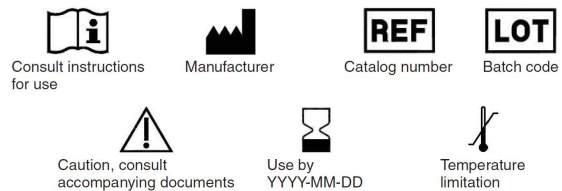
Please follow the instructions of the material data safety sheet (MSDS).

Composition of the product

FISHopt® is a mixture and contains the main components ethyl alcohol (ethanol) (>24% v/v) and formaldehyde (synonyms: formalin, formaldehyde solution) (<24% v/v).

Transport information

Samples in FISHopt® can be shipped at room temperature according to the UN number 3373.



Status: 2024-10-04



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2024-10-04