

DEHYOL 95

Alcoholic mixture ethanol-isopropanol alcoholic grade 95°

IVD In-vitro diagnostic medical device **CE**

CND Code: W01030799

Catalog number	Unit size
06-10070Q	4 x 2.5 l
06-10070F	5 l

Packaging

- 06-10070Q

Primary container: white bottle in polyethylene terephthalate (PET). Useful capacity 2.5 liters. HDPE cap. Tamper evident cap.

The polyethyleneterephthalate is a thermoplastic polymer of the polyester family. PET is an optimal oxygen, carbon dioxide and other gasses barrier. This material has an high resistance to ultraviolet radiation and an inertia toward the mainly chemical agents (solvents: xylene, limonene, liquid paraffines, alcohols, acids, bases etc.). It is biologically inert. It constitutes a good water and humidity barrier. It shows a great hardness and mechanical resistance.

The bottle has an optimal grip. The absence of the handles reduces space for storage. The anti-dropping cap permits a precise and clean use.

Secondary container: carton box.

06-10070F

Primary container: PE tank, capacity 5 liters. Screwcap in PE with a seal. Watertight.

Wear, water, alcohol and solvents resistant PVC label. Scratchproof ink resistant to water and alcohol.

Expected aim

Product for the preparation of cyto-histological samples for optical microscopy.

Application

Alcoholic mixture formulated and optimized for use in the histological and cytological routine:

- processing
- dewaxing
- dehydration

It is comparable to absolute ethanol, so it can be inserted into existing protocols, without the addition of any changes.

Principle

Dehydration process

Through the dehydration process the free water is removed from the tissue.

The process is usually carried out using short-chain alcohols - typically ethanol - with highly polar functional groups that interact strongly and quickly with free water pulling it out from the tissue.

When this process takes place too quickly - as happens in the presence of ethanol - may occur some distortions which confer to tissue negative characteristics such as hardness, friability and 'shrinkage'.

Replacing ethanol (2 carbon atoms linear chain) with isopropanol (3 carbon atoms branched chain) the extraction speed of water is balanced without negative effects.

Components

Components	CAS	CE	Index
Ethanol	64-17-5	200-578-6	603-002-00-5
Isopropanol	67-63-0	200-661-7	603-117-00-0
Deionized water			

Functional properties

The dehydrating power of DEHYOL 95 mixture is the same of the ethanol but the hardening and shrinkage effects are reduced.

The greater lipophilia of the mixture favors the subsequent stages of clarification and infiltration. The samples obtained are well infiltrated and elastic to the cut.

Warning and precaution

The product must be used exclusively by specialized technical operators.
Carefully read the information on the classification of dangerous substances on the label. Always refer to the safety data sheet where are available the information on the risks presented by the mixture, the precautionary measures during use, the measures first aid and the intervention in the event of accidental release.

Do not use if the primary container is damaged.

Storage

Store the preparation below 30°C. Keep the containers tightly closed.

Stability

After the first opening, the product is usable until the expiry date, if correctly stored. Product validity: 5 years.

Disposal

Hazardous preparation: observe all state and local environmental regulations regarding waste disposal.

References

- Bancroft J.D., Gamble M. Theory and Practice of Histological Techniques. Churchill Livingstone, Sixth Edition 2008; 84-85

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