



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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HOPE® I Solution

Catalog No: BM-HL001
Lot No: XXXXX
Supplied as: liquid
Stability: store at +4°C

Background

Tissue conservation using the new HOPE®-technique provides paraffin embedded tissue blocks with native structure of the macro-molecules (protein, DNA, RNA) in the tissue. During HOPE® fixation, tissue samples are incubated in HOPE® I solution, then in HOPE® II solution, followed by a dehydration with acetone and subsequent embedding in paraffin. For this tissue processing no alcohols or aldehydes (formalin, glutaraldehyde) are used. As a consequence, there is no cross-linking of macro-molecular structures during the process. This opens up new opportunities to characterize tissues out of paraffin blocks. Many "cryo-type" antibodies are working on HOPE® fixed tissue sections and many antibodies are working without any heat pretreatment or proteolytic digestion steps often necessary for formalin fixed tissue sections. There is no "over-fixation" with HOPE®, as is known with formalin, when keeping the tissue specimen in the fixation solution. This results in a more standardized fixation process. RNA, DNA and proteins are conserved in high quality, thus making subsequent applications possible like e.g. PCR, RT-PCR, Northern-Blot, Immunohistochemistry, Western-Blot and many others, out of the same tissue blocks.

Protocol

Transfer tissue after resection immediately into sterile plastic petri dish and keep cool. Take care that the tissue does not dry out. Seal the dish with Parafilm if necessary. Cut tissue into pieces of max. 8 mm x 8 mm x 8 mm and transfer into disposable 5 mL tubes with ice-cold (0-4°C) HOPE® I.

Important: To ensure good diffusion and penetration of the tissue, only use cut/sectioned organs and organ parts, respectively, i.e. do NOT use encapsulated tissues! If using frozen tissue, do NOT thaw prior to transfer into HOPE®I solution. Using frozen tissue as starting material can lead to a lower quality of morphology compared to fresh tissue.

Incubate tissue in HOPE® I solution at 0-4°C for 12-72 hours. During this incubation, erythrocytes might diffuse out of the tissue and form a reddish pellet in the tube. However, this does not affect the quality of the fixation. The color of HOPE®I should stay orange-yellow throughout the fixation representing a stable pH. Please consult the HOPE® fixation manual for further instructions.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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