Environment Friendly Wax Impregnation Dewaxing Transparent Solution

Cat. No.: E1520400 | Pack size: 500 mL | Storage: Room temperature

Overview

This BioReagent is an environment-friendly wax-soaking and dewaxing clearing solution for histopathological and cytological specimen processing.

It is a colorless, odorless, low-volatility and biodegradable organic solvent that is free of aromatic compounds and can replace xylene in tissue preparation.

Key Features

- Environment-friendly clearing agent for wax infiltration and dewaxing
- Colorless, odorless, low-volatility and biodegradable
- Free of aromatic compounds and non-corrosive to instruments during use
- Suitable for immunohistochemistry and microscopy workflows

Product Information

Item	Description
Synonyms	Paraffin Infiltration and Dewaxing Clarifying Solution
Specifications & Purity	BioReagent, suitable for Immunohistochemistry (IHC), for microscopy
Stability & Storage	Store at room temperature long term (36 months).
Storage Conditions	Room temperature
Shipping	Normal
Grade	BioReagent, for microscopy, suitable for Immunohistochemistry (IHC)

Contents & Storage

Cat. No.	Component / Product	Size	Storage

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E1520400-500mL	Environment Friendly Wax Impregnation Dewaxing Transparent Solution	500 mL	RT

Materials Required But Not Supplied

Item	Recommended Specification	Purpose
Personal protective equipment	Lab coat, disposable gloves and eye protection	Safe handling and contamination control
Tissue sections or specimens	Paraffin-embedded sections or tissue processor specimens	Dewaxing, clearing and wax infiltration
Ethanol series	Absolute ethanol, 95% ethanol, 80% ethanol	Dehydration and rehydration steps
10% neutral buffered formalin	Validated fixative	Tissue processing
Paraffin wax	65 °C wax infiltration	Embedding workflow
Mounting medium	Compatible with final staining	Mounting

Preparation Before Use

1. Use adequately dehydrated tissues for tissue wax infiltration or clearing after staining.
2. Use clean reagent vessels and replace reagent according to laboratory validation.

Protocol

Routine HE Staining of Tissue Sections

1. Dewax with Environment-friendly Wax-Soaking and Dewaxing Clearing Solution (I) for 5-15 minutes.
2. Dewax with Environment-friendly Wax-Soaking and Dewaxing Clearing Solution (II) for 5-15 minutes.
3. Treat with absolute ethanol for 2-3 minutes.
4. Treat with 95% ethanol for 1-2 minutes.
5. Treat with 80% ethanol for 1-2 minutes.

6. Rinse with water for 1-2 minutes.
7. Perform hematoxylin and eosin (HE) staining according to specific experiments.
8. Dehydrate according to specific experiments.
9. Clear with Environment-friendly Wax-Soaking and Dewaxing Clearing Solution (I) for 2-5 minutes.
10. Clear with Environment-friendly Wax-Soaking and Dewaxing Clearing Solution (II) for 2-5 minutes.
11. Mount with mounting medium.

Tissue Processing (Tissue Processor)

1. Fix in 10% neutral buffered formalin (I) for 2 hours.
2. Fix in 10% neutral buffered formalin (II) for 2 hours.
3. 80% ethanol for 45 minutes.
4. 95% ethanol (I) for 45 minutes.
5. 95% ethanol (II) for 45 minutes.
6. Absolute ethanol (I) for 45 minutes.
7. Absolute ethanol (II) for 45 minutes.
8. Clear with this solution (I) for 1 hour.
9. Clear with this solution (II) for 1 hour.
10. Wax infiltration at 65 °C (I) for 1 hour.
11. Wax infiltration at 65 °C (II) for 1 hour.
12. Wax infiltration at 65 °C (III) for 2-3 hours.

Storage & Handling

Store as indicated on the product label: Room temperature.

Shelf life: Store at room temperature long term (36 months).

Safety & Precautions

1. Tissues must be adequately dehydrated before use, whether for tissue wax infiltration or clearing after staining.
2. Follow institutional chemical-handling procedures even though the reagent is designed as an environmentally friendly clearing agent.
3. Wear a lab coat and disposable gloves during operation.
4. For research use only.

Quality Control

QC Item	Method	Acceptable Range
Clearing performance	Representative tissue section or tissue processor run	Specimen becomes adequately cleared for wax infiltration or mounting.
Instrument compatibility	Routine processor inspection	No corrosion or abnormal residue under validated use conditions.
Appearance	Visual inspection	Colorless, clear solution without abnormal contamination.

Troubleshooting

Issue	Possible Causes	Corrective Action
Incomplete dewaxing	Insufficient clearing time or exhausted reagent	Extend within recommended time or replace reagent.
Poor wax infiltration	Tissue not adequately dehydrated	Ensure ethanol dehydration steps are complete before clearing.
Mounting artifact	Incomplete dehydration or clearing	Repeat dehydration/clearing steps and use compatible mounting medium.

Recommended Applications

xylene replacement · tissue clearing · paraffin dewaxing · wax infiltration · immunohistochemistry sample preparation

Contact & Global Offices

Whether you have a technical question, need help with a quotation, or want to inquire about an order, our regional teams are ready to assist. Please contact the office for your region; for general inquiries, the North American office is the corporate primary.

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Limitations & Disclaimer

- For Research Use Only (RUO). Not for use in human or animal diagnostics, therapeutics, or in vivo applications. Not for food, cosmetic, or household use.
- This product is not a CE-marked in vitro diagnostic device under IVDR (EU) 2017/746 and is not an FDA-cleared device under 21 CFR. Use is restricted to verified businesses, institutions, and qualified professionals for research and development purposes.
- Where any kit component is classified as hazardous under CLP (EC) 1272/2008 or OSHA HCS (29 CFR 1910.1200), the product Safety Data Sheet (SDS) takes precedence over this document for handling, storage, and disposal information.
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