

One-step Dewaxing/Antigen Retrieval Buffer (20×, pH 9.0)

Catalog No.: PA10018

Basic Information

Product name	One-step Dewaxing/Antigen Retrieval Buffer (20×, pH 9.0)
Sizes	100 mL, 500 mL
Storage	2-8 °C
Shipping	Shipped with ice pack
Validity	12 months

Product Introduction

EnkiLife One-Step Dewaxing/Antigen Retrieval Buffer is a revolutionary reagent developed specifically for paraffin-embedded tissue sections. By integrating the traditionally separate and labor-intensive steps of dewaxing, graded-ethanol rehydration, and antigen retrieval into a single one-step procedure, it dramatically shortens overall protocol time while markedly improving staining consistency and reproducibility.

The buffer employs an eco-friendly, user-safe formulation free of volatile toxic solvents such as xylene, eliminating the need for a fume hood. This protects researcher health and reduces environmental impact. Its robust and reliable performance is broadly applicable to paraffin-section-based techniques, including immunohistochemistry (IHC) and in situ hybridization (ISH), providing a more convenient and safer solution for both pathological diagnosis and life-science research.

Driven by technological innovation, EnkiLife streamlines laboratory workflows, empowering researchers to break free from conventional limitations and making experiments simpler and results more trustworthy.

Working Solution Preparation

The dewaxing/antigen retrieval buffer (20×, pH 9.0) is a 20-fold concentrate. Dilute with deionized water to prepare a 1× working solution before use.

Example: Combine 10 mL of concentrate with deionized water to a final volume of 200 mL.

Note: Prepare the 1× working solution immediately before use.

Experimental procedure

1. Place 1× dewaxing/antigen retrieval buffer (pH 9.0) in a staining jar and heat to boiling using an appropriate heating device.

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2. Adjust the heating device to medium-low heat to maintain a gentle boiling state. Once the state stabilizes, immerse the sections in 1× dewaxing/antigen retrieval buffer (pH 9.0) working solution, ensuring that the tissue on the sections is completely submerged. (Note: Directly placing sections into boiling solution may cause the deparaffinization/retrieval solution to overflow. When performing retrieval, heat the solution until boiling, then reduce to medium-low heat. Only place the sections into the solution once the gentle boiling state has stabilized.)
 3. Maintain a gentle boil for 15–30 min (keep at initial boiling state); do not allow tissue to dry. Remove jar from heat and let cool to room temperature.
 4. Rinse slides thoroughly with deionized water to remove all traces of the 1× dewaxing/antigen retrieval buffer (pH 9.0).
 5. Continue with the standard IHC protocol.

Notes

1. Store at 2–8 °C; do not freeze. Use within 6 months after opening.
2. Keep tissue moist throughout the procedure; drying will cause non-specific staining.
3. During heating, use only low–medium heat to maintain boiling; high heat may cause buffer splashing.
4. Wear a lab coat and disposable gloves for safety.
5. For research use only; not intended for clinical diagnosis or therapy.

This product is for research use only!