Tris-EDTA Antigen Retrieval Buffer (20×, pH 9.0)

Catalog No.: PA10007

Basic Information

Product name	Tris-EDTA Antigen Retrieval Buffer (20×, pH 9.0)
Sizes	100 mL, 500 mL
Storage	RT
Shipping	RT
Validity	12 months

Product Introduction

After fixation with paraformaldehyde, formalin, or other aldehyde-based reagents, antigenic epitopes become masked by aldehyde- and carboxymethyl-mediated cross-links and by protein–protein cross-linking. These alterations distort the native protein conformation, reduce the number of accessible antibody-binding sites, and lead to false-negative results or diminished staining intensity. Because aldehyde-induced cross-links are reversible, the original conformation can be restored under high temperature or proteolytic conditions; this step is known as antigen retrieval (AR) and is critical for reliable immunohistochemistry. The optimal retrieval method—heat-induced epitope retrieval (HIER) or enzymatic digestion—should be selected according to tissue type.

This product is a concentrated Tris-EDTA antigen retrieval buffer (20×, pH 9.0). Dilute 1:20 to obtain a working solution containing 1 mM EDTA at pH 9.0, suitable for antigen retrieval.

Working Solution Preparation

Add 10 mL of the 20× concentrate to 190 mL distilled water and mix well.

Notes

1. This product is a concentrate and must be diluted before use. The diluted working solution should be used the same day; short-term storage at 4 °C is acceptable.
2. Select the antigen retrieval buffer that matches the antigen and tissue characteristics.
3. Wear a lab coat and disposable gloves for your safety and health.
4. For research use only; not intended for clinical diagnosis or therapy.

This product is for research use only!