Tris-EDTA Antigen Retrieval Buffer (10×, pH 9.0)

Catalog No.: PA10012

Basic Information

Product name	Tris-EDTA Antigen Retrieval Buffer (10×, 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 determinants become masked by aldehyde cross-links, carboxymethylation, and protein–protein cross-linking. These modifications alter protein conformation, reduce the number of accessible epitopes, and lead to false-negative results or weak staining in immunolabeling. The aldehyde-induced cross-links are reversible; under appropriate conditions (e.g., high temperature or enzymatic digestion) the original protein conformation can be restored. This process is termed antigen retrieval (AR) and is a critical step in immunohistochemistry. Multiple retrieval methods are available; heat-induced epitope retrieval (HIER) or enzymatic retrieval can be selected according to tissue type and antigen characteristics.

This product, Tris-EDTA Antigen Retrieval Buffer (10×, pH 9.0), is a concentrated buffer. Dilute 10-fold to obtain a working solution of pH 9.0 containing 1 mM EDTA, suitable for antigen retrieval.

Working Solution Preparation

Add 10 mL of the 10× concentrate to 90 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!