PRODUCT SPECIFICATION SHEET

0.5M EDTA, pH 7.4

Catalog Number: E001-1000 **Size:** 1000 mL **Form:** Liquid, ready-to-use

1. Product Description

CELLPICK 0.5M EDTA, pH 7.4 is a premium, ready-to-use chelating agent solution essential for diverse molecular biology and biochemistry workflows. By strongly sequestering divalent metal cations such as Mg^{2+} and Ca^{2+}, it effectively inhibits metal-dependent enzymes including DNases, RNases, and proteases.

The sterile solution is precisely formulated and pH-adjusted to ensure maximum consistency. Utilizing this pre-made buffer safeguards nucleic acids and proteins from enzymatic degradation while saving valuable preparation time and reducing batch-to-batch variability.

2. Specifications

Concentration	0.5 M
Composition	500 mM Na_2EDTA, pH adjusted to 7.4 with sodium hydroxide, sterile solution.
pH	7.4 ± 0.1
Appearance	Clear, colorless liquid
Storage Conditions	2–8°C (Refrigerated)

3. Recommended Applications & Usage

This highly versatile buffer is indispensable in molecular biology laboratories. Key applications include the preparation of electrophoresis running buffers (such as TAE and TBE), genomic DNA and RNA extraction protocols, and general enzyme inactivation procedures.

Usage: Add the appropriate volume directly to your working solutions or cell suspensions to achieve the desired final EDTA concentration (typically ranging from 1 mM to 50 mM). No further pH adjustment is required before use.

4. Ordering Information

Catalog Number	Product Name	Packaging Unit
E001-1000	0.5M EDTA, pH 7.4	1000 mL