PRODUCT SPECIFICATION SHEET

1X PBS, pH 7.4 Solution

Catalog Number: P018-0500 **Size:** 500 mL **Form:** Liquid, ready-to-use

1. Product Description

CELLPICK 1X Phosphate-Buffered Saline (PBS), pH 7.4 is a ready-to-use, premium-grade isotonic buffering solution essential for general cell culture, tissue washing, and diverse molecular biology applications. Meticulously formulated to mimic the physiological osmolarity and ion concentration of the human body, it maintains cell integrity, viability, and native protein conformations without requiring any manual dilution or pH titration.

Prepared under strict quality controls using ultra-pure reagents and sterile filtration, this ready-to-use solution completely eliminates preparation bottlenecks, weighing errors, and contamination risks in routine laboratory workflows. The 500 mL packaging provides an optimal benchtop format for daily cell culture and assay rinses.

2. Specifications

Concentration	1X (Ready-to-use)
Composition	137 mM NaCl, 2.7 mM KCl, 4.3 mM Sodium Phosphate (dibasic), 1.4 mM Potassium Phosphate (monobasic) in purified water
pH	7.4 ± 0.1 at 25°C
Appearance	Clear, colorless liquid
Storage Conditions	Store at room temperature (15–25°C) or 2–8°C

3. Recommended Applications & Usage

1X PBS is the foundational liquid medium for a wide array of life science workflows. Key applications include washing cells prior to dissociation, rinsing tissue samples, transporting cells or tissue specimens, and serving as a reliable diluent for antibody solutions and biochemical assays.

Usage: This product is supplied as a ready-to-use 1X solution and requires no dilution or pH adjustment. Aseptically decant or pipette the required volume directly into your culture vessels or assay tubes. Handle using standard aseptic techniques to maintain sterility.

4. Ordering Information

Catalog Number	Product Name	Packaging Unit
P018-0500	1X PBS, pH 7.4 Solution	500 mL