PRODUCT SPECIFICATION SHEET

10X PBS, pH 6.8 Solution

Catalog Number: P016-0500 **Size:** 500 mL **Form:** Liquid, ready-to-dilute stock

1. Product Description

CELLPICK 10X Phosphate-Buffered Saline (PBS), pH 6.8 is a specialized, premium-grade buffering solution designed for biochemical assays, protein crystallography, and specialized molecular biology workflows requiring a slightly acidic physiological environment. This concentrated master stock accurately provides a stable pH 6.8 upon working-strength dilution, ensuring optimal conditions for sensitive enzymatic reactions and protein stability.

Prepared with ultra-pure reagents, this pre-mixed concentrate eliminates the tedious labor of manual salt weighing, precise pH titration, and autoclave sterilization. The 500 mL packaging format is ideally tailored for benchtop reagent preparation, core facilities, and routine research workflows.

2. Specifications

Concentration	10X
Composition	1.35 M NaCl, 27 mM KCl, Sodium Phosphate (dibasic) and Potassium Phosphate (monobasic) titrated to target pH
pH	6.8 ± 0.1 (upon dilution to 1X working concentration at 25°C)
Appearance	Clear, colorless liquid
Storage Conditions	2–8°C (Refrigerated)

3. Recommended Applications & Usage

This product is specifically recommended for applications requiring a slightly acidic phosphate-buffered saline environment, such as specific protein binding assays, targeted nucleic acid extractions, and specialized biochemical research protocols.

Usage (Dilution): This product is a 10X concentrated stock and must be diluted prior to use. To prepare a standard 1X working solution, combine 1 part of 10X PBS (pH 6.8) with 9 parts of sterile distilled or deionized water (e.g., mix 50 mL of 10X stock with 450 mL of water). Invert gently until fully homogeneous. No further pH titration is required.

4. Ordering Information

Catalog Number	Product Name	Packaging Unit
P016-0500	10X PBS, pH 6.8 Solution	500 mL