PRODUCT SPECIFICATION SHEET

20X PBS, pH 7.4 Solution

Catalog Number: P010-0500 **Size:** 500 mL **Form:** Liquid, ready-to-dilute

1. Product Description

CELLPICK 20X Phosphate-Buffered Saline (PBS), pH 7.4 is a highly concentrated, premium-grade buffering solution essential for a vast array of cell biology, biochemistry, and molecular biology applications. As an isotonic and non-toxic buffer, it flawlessly mimics the physiological osmolarity and ion concentration of the human body, ensuring maximum cell viability and preserving native protein structures during rigorous experimental procedures.

This 20X master stock is meticulously formulated using high-purity raw materials. By utilizing this pre-mixed concentrate, researchers save valuable preparation time and eliminate inconsistencies associated with manual weighing and pH adjustment. The 500 mL packaging provides a convenient and practical format for benchtop reagent preparation and routine cell culture in standard research laboratories.

2. Specifications

Concentration	20X
Composition	2.7 M NaCl, 54 mM KCl, 86 mM Sodium Phosphate (dibasic), 28 mM Potassium Phosphate (monobasic)
pH	7.4 ± 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

PBS is the universal physiological buffer for life science research. Key applications include washing cell cultures and tissue samples, diluting primary and secondary antibodies for Western Blotting and ELISA, and acting as a base solvent for custom reagent preparation.

Usage (Dilution): This product is a 20X concentrated stock and must be diluted prior to use. To prepare a standard 1X PBS working solution, combine 1 part of 20X PBS with 19 parts of sterile distilled or deionized water (e.g., mix 25 mL of 20X PBS with 475 mL of water). Invert gently to ensure thorough mixing. No further pH adjustment is typically required.

4. Ordering Information

Catalog Number	Product Name	Packaging Unit
P010-0500	20X PBS, pH 7.4 Solution	500 mL