PRODUCT SPECIFICATION SHEET

4% Paraformaldehyde Solution

Catalog Number: P001-0500 **Size:** 500 mL **Form:** Liquid, ready-to-use

1. Product Description

CELLPICK 4% Paraformaldehyde (PFA) Solution is a high-purity, ready-to-use fixative optimized for the exceptional preservation of cellular morphology and antigenicity. Prepared in standard 1X Phosphate-Buffered Saline (PBS), it creates reversible cross-links that stabilize proteins without excessively masking epitopes, making it the preferred fixative for sensitive fluorescence-based assays.

By utilizing this pre-mixed, stabilized liquid formulation, researchers are completely freed from the hazardous, time-consuming process of heating and depolymerizing toxic PFA powder in a fume hood. The 500 mL packaging provides a convenient and practical format for routine cell fixation and tissue processing in standard research laboratories.

2. Specifications

Composition	4% (w/v) Paraformaldehyde in 1X Phosphate-Buffered Saline (PBS)
pH	7.4 ± 0.1 at 25°C
Form	Liquid, ready-to-use
Appearance	Clear, colorless liquid
Storage Conditions	2–8°C (Refrigerated). Protect from light.
Hazard Information	Contains Paraformaldehyde. Toxic, respiratory/skin irritant, and suspected carcinogen. Must be handled in a fume hood with proper PPE.

3. Recommended Applications & Usage

4% PFA is the gold standard for sensitive cellular and tissue fixation. Key applications include Immunocytochemistry (ICC), Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry, and the preparation of tissues for cryosectioning.

Usage (Cultured Cells): Carefully aspirate the culture medium and wash the cells gently with cold PBS. Add a sufficient volume of 4% PFA solution to completely cover the cells. Incubate for 10–20 minutes at room temperature. Following fixation, aspirate the PFA and wash the cells extensively (e.g., 3 times for 5 minutes each) with PBS to remove any residual fixative before proceeding with permeabilization or staining.

4. Ordering Information

Catalog Number	Product Name	Packaging Unit
P001-0500	4% Paraformaldehyde Solution	500 mL