PRODUCT SPECIFICATION SHEET

10% Paraformaldehyde Solution

Catalog Number: P003-0500 **Size:** 500 mL **Form:** Liquid, ready-to-use / ready-to-dilute

1. Product Description

CELLPICK 10% Paraformaldehyde (PFA) Solution is an ultra-high concentration, premium fixative prepared in standard 1X Phosphate-Buffered Saline (PBS). This highly versatile formulation serves as an excellent stock solution, allowing researchers to effortlessly and economically dilute it to customized working concentrations (such as 4% or 2%) for sensitive assays, or use it directly for specialized protocols demanding robust cross-linking.

By utilizing this pre-mixed, stabilized 10% liquid formulation, laboratories completely eliminate the hazardous, time-consuming process of handling, heating, and depolymerizing toxic PFA powder in a fume hood. The 500 mL packaging provides a highly practical format for routine cell culture, histology, and high-throughput research applications.

2. Specifications

Composition	10% (w/v) Paraformaldehyde in 1X Phosphate-Buffered Saline (PBS)
pH	7.4 ± 0.1 at 25°C
Form	Liquid, ready-to-use or ready-to-dilute
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

10% PFA is ideal for robust tissue fixation (e.g., electron microscopy preparation) and serves as a highly efficient stock for preparing lower-concentration fixatives. Key downstream applications include Immunocytochemistry (ICC), Immunohistochemistry (IHC), and Immunofluorescence (IF).

Usage (Dilution & Fixation): To prepare a standard 4% PFA working solution, mix the 10% PFA solution with sterile 1X PBS in a 1:1.5 volume ratio (e.g., 4 mL of 10% PFA + 6 mL of PBS) immediately prior to use. For cell fixation, carefully aspirate the culture medium, gently wash cells with cold PBS, and apply the diluted fixative to completely cover the cells. Incubate for 10–20 minutes at room temperature. Following fixation, wash the cells extensively with PBS.

4. Ordering Information

Catalog Number	Product Name	Packaging Unit