PRODUCT SPECIFICATION SHEET

8% Paraformaldehyde Solution

Catalog Number: P002-1000 **Size:** 1000 mL **Form:** Liquid, ready-to-use / ready-to-dilute

1. Product Description

CELLPICK 8% Paraformaldehyde (PFA) Solution is a high-concentration, premium fixative prepared in standard 1X Phosphate-Buffered Saline (PBS). This versatile formulation provides researchers with the flexibility to use it directly for robust tissue fixation protocols or to effortlessly dilute it to a standard 4% or 2% working concentration, ensuring freshly prepared fixative properties for sensitive assays.

By utilizing this pre-mixed, stabilized 8% stock solution, laboratories are completely freed from the hazardous, time-consuming process of handling, heating, and depolymerizing toxic PFA powder in a fume hood. The 1000 mL packaging provides an economical and highly practical format for routine cell culture and histology applications.

2. Specifications

Composition	8% (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

8% PFA is ideal for robust tissue fixation and serves as a convenient stock for preparing lower-concentration fixatives. Key applications include Immunocytochemistry (ICC), Immunohistochemistry (IHC), Immunofluorescence (IF), and general histological processing.

Usage (Dilution & Fixation): To prepare a standard 4% PFA working solution, mix the 8% PFA solution 1:1 with sterile 1X 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 to remove any residual cross-linking agent.

4. Ordering Information

Catalog Number	Product Name	Packaging Unit
P002-1000	8% Paraformaldehyde Solution	1000 mL