PRODUCT SPECIFICATION SHEET

# 10% Neutral Buffered Formalin

**Catalog Number:** F001-1000 **Size:** 1000 mL **Form:** Liquid, ready-to-use

## 1. Product Description

CELLPICK 10% Neutral Buffered Formalin (NBF) is a premier, ready-to-use tissue fixative universally employed in histology, pathology, and cell biology. Formulated with precise phosphate buffering to maintain a neutral pH (~7.0), it ensures optimal structural preservation of tissues and cells while preventing the formation of artifactual formalin pigment (acid hematin) common in unbuffered solutions.

This reliable, pre-mixed solution provides excellent morphological detail and preserves cellular antigens for downstream diagnostic and research applications. The 1000 mL packaging provides a convenient and economical format for routine daily tissue processing in clinical and research laboratories.

## 2. Specifications

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| **Composition** | 10% Formalin (approx. 4% Formaldehyde), 33.34 mM Sodium Phosphate (monobasic), 45.78 mM Sodium Phosphate (dibasic) |
| **Form** | Liquid, ready-to-use |
| **Appearance** | Clear, colorless liquid |
| **Storage Conditions** | 2–8°C (Refrigerated) |
| **Hazard Information** | Contains Formaldehyde. Toxic, skin/eye irritant, and suspected carcinogen. Must be handled in a fume hood with proper PPE. |

## 3. Recommended Applications & Usage

10% NBF is the gold-standard fixative for routine tissue processing. Key applications include the fixation of anatomical specimens, surgical tissue biopsies, and cell cultures for subsequent Hematoxylin & Eosin (H&E) staining, Immunohistochemistry (IHC), In Situ Hybridization (ISH), and long-term archiving.

**Usage:** Completely immerse the excised tissue specimen in the solution immediately after collection. To ensure rapid, uniform penetration and prevent autolysis, a fixative-to-tissue volume ratio of at least 10:1 (preferably 20:1) is highly recommended. Typical fixation time ranges from 24 to 48 hours at room temperature, depending on the size and density of the specimen.

## 4. Ordering Information

| Catalog Number | Product Name | Packaging Unit |
|---|---|---|
| F001-1000 | 10% Neutral Buffered Formalin | 1000 mL |