PRODUCT SPECIFICATION SHEET

10% Neutral Buffered Formalin

Catalog Number: F001-10L **Size:** 10 L **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 10L bulk packaging is highly economical and ideal for high-throughput clinical pathology and anatomical research laboratories.

2. Specifications

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
F001-10L	10% Neutral Buffered Formalin	10 L