PRODUCT SPECIFICATION SHEET

5X SDS-PAGE Sample Loading Buffer

Catalog Number: S003-1MLX10 **Size:** 1 mL × 10 **Form:** Liquid, ready-to-use

1. Product Description

CELLPICK 5X SDS-PAGE Sample Loading Buffer is an optimized, ready-to-use formulation designed for the preparation of protein samples prior to sodium dodecyl sulfate-polyacrylamide gel electrophoresis (SDS-PAGE).

Formulated with Tris-HCl, SDS, glycerol, DTT, and bromophenol blue, it ensures complete protein denaturation, reduction of disulfide bonds, and proper tracking during electrophoresis. Supplied in a convenient 1 mL × 10 format to prevent freeze-thaw degradation and maintain stability.

2. Specifications

Concentration	5X Concentrate
Composition	250 mM Tris-HCl (pH 6.8), 0.5 M DTT, 10% SDS, 50% Glycerol, 0.2% Bromophenol blue
pH	6.8 ± 0.1 at 25°C
Appearance	Dark blue liquid
Storage Conditions	−20°C (Freeze)

3. Recommended Applications & Usage

Used for denaturing protein samples for standard Laemmli SDS-PAGE and Western blotting applications.

Usage: Mix 1 volume of 5X Loading Buffer with 4 volumes of protein sample. Heat at 95–100°C for 5 minutes prior to loading onto the gel.

4. Ordering Information

Catalog Number	Product Name	Packaging Unit
S003-1MLX10	5X SDS-PAGE Sample Loading Buffer	1 mL × 10