



PRODUCT INFORMATION

Fudebio-tech

FD™DualColor Protein

Loading Buffer

5 ml of 5x FD™DualColor Protein Loading Buffer
 25 ml of 5x FD™DualColor Protein Loading Buffer
 #FD002/FD006
 Lot: _

Store 5x FD™DualColor Protein Loading Buffer
 at -20°C temperature.

Recommendations for sample preparation

Step	Procedure
Thawing	Dissolve precipitated solids in the Loading buffer (if any) at 37°C.
Mixing	1. Vortex gently the components of the pack to ensure that the solutions are homogeneous. 2. Add 5x FD™ DualColor Protein Loading Buffer. 3. Add protein sample solution. 4. Add Water, nuclease-free.
Denaturing	Heat samples at 100°C for 3-5 minutes.
Loading	Centrifuge briefly and apply directly to a SDS-polyacrylamide gel.

Description

The 5x FD™ DualColor Protein Loading Buffer Pack is a complete solution for the preparation of protein samples prior to SDS-PAGE. Many proteins are sensitive to pH changes that result from temperature fluctuations during sample preparation in Tris buffers. The 5x FD™ DualColor protein loading buffer prevents protein degradation during sample heating prior to SDS-PAGE as well as during the electrophoresis run. The loading buffer contains two tracking dyes: blue (bromophenol blue) and pink (pyronin Y). Pyronin Y transfers on the membrane during Western blotting procedure and serves as an indicator of gel lanes. The 5x FD™ DualColor Protein Loading Buffer contains LDS and DTT for complete disruption of all high-order protein structures. As DTT is prone to oxidation during multiple freeze-thaw cycles it is supplied in separate vials.

Composition

- 5x FD™ DualColor Protein Loading Buffer:
 0.25 M Tris-HCl, 1.6 mM EDTA (pH 8.5), DTT, LDS, glycerol, bromophenol blue, pyronin Y.

Note

- For silver staining DTT concentration in the sample should not exceed 50 mM. Higher DTT concentration in protein sample may cause streaking or yellowing of the gel.
- Due to presence of LDS, the loading buffer is not suitable for native polyacrylamide gel electrophoresis.
- Generally pyronin Y migrates faster than bromophenolblue. In higher percentage SDS-polyacrylamide gels (for example 15%) pyronin Y dye migrates slower than bromophenol blue

PRODUCT USE LIMITATION

This product is developed, designed and sold exclusively for research purposes and in vitro use only. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.