



YamayBio

Fast-dissolving Dual-color Protein Loading Buffer (Denaturing, Reducing, 5×)

INSTRUMENT MANUAL

Research use only.
Not for diagnostic procedures.

Contents and storage

Fast-dissolving Dual-color Protein Loading Buffer (Denaturing, Reducing, 5×)

GB4353-5 1mL×5

GB4353-15 1mL×15

GB4353-75 1mL×75

Storage: Store at -20°C for 12 months. Product shipped at room temperature.

Introduction

This 5× SDS-PAGE sample loading buffer is dual-colored and formulated for reducing conditions. It contains lithium dodecyl sulfate at pH 8.4, ensuring optimal activity of the reducing agent. Upon removal from -20°C, the buffer thaws rapidly, saving valuable time. A novel reducing agent provides strong reduction capabilities without the unpleasant odor associated with β-mercaptoethanol or DTT. Furthermore, this buffer includes both a blue tracking dye for electrophoresis and a special red dye. The red dye co-transfers to the membrane with protein samples, clearly indicating lane positions and allowing for easy monitoring of transfer efficiency.

Quick Start Protocol

1. Ensure the sample loading buffer is completely thawed.
2. In a clean tube, mix one part Sample Buffer with four parts protein sample (e.g., combine 5 µL of Sample Buffer with 20 µL of protein sample). Note: Insufficient dilution of the sample buffer may result in a diffuse dye front.
3. Boil the mixture for 5 to 10 minutes to ensure complete protein denaturation.
4. Centrifuge the sample at 10,000 × g for 5 minutes.
5. The resulting supernatant is now ready for SDS-PAGE analysis.