Ver. 250201

SDS-PAGE Loading Buffer (4X)
(with β-Mercaptoethanol)

Cat.No.: P1016

Description

The main components are SDS, β-mercaptoethanol, bromophenol blue, buffer salt solution. SDS can combine with proteins to make the protein- SDS complex, eliminating the difference in the charge of various proteins, SDS can also break the intramolecular and intermolecular hydrogen bonds, and destroy the secondary and tertiary structures of protein molecules. β-mercaptoethanol can break the disulfide bond between cysteine residues, destroy the quaternary structure of proteins, and eliminate the differences between protein structures. The final protein (subunit) has no charge and structural difference, and the electrophoresis speed is only related to its molecular weight; Bromophenol blue is used as an indicator during electrophoresis, indicating roughly when the electrophoresis will end.

Contents and Storage

Contents	Storage
SDS-PAGE Loading Buffer (4X) (with β-Mercaptoethanol) 1 × 10 mL	4 °C

Instructions for use

- Add 10μL loading buffer per 30μL protein sample (4 times dilution) to use. If the protein concentration is too high, the sample can be diluted with double distilled water.
- Heat in 100℃ water bath for 3-5 minutes to denature the protein.
- After cooling to room temperature, centrifuge at 10000-14000rpm for 2-5 minutes, take the supernatant directly load the samples to the gel for electrophoresis.