

SDS-PAGE Protein Loading Buffer (5×, Odorless)

(WB003)

Product Description

This SDS-PAGE Protein Loading Buffer (5×, Odorless) is a 5-fold concentrated protein loading buffer that uses TCEP, an odorless reagent, as the reducing agent to replace traditional DTT or 2-ME. SDS can bind to proteins to form complexes with a large number of negative charges, eliminating the charge differences between different proteins. SDS can break intermolecular hydrogen bonds and destroy the secondary and tertiary structures of proteins, while TCEP can break the disulfide bonds between cysteine residues and disrupt the spatial structure of proteins, thereby eliminating the structural differences among different proteins. This product is suitable for the detection of denatured proteins.

Components

Product Name	Cat. No.	Volume
SDS-PAGE Protein Loading Buffer (5×, Odorless)	WB003	1 mL×2

Storage Conditions

Store at -30 ~ -15°C and transport at ≤0°C. The shelf life is one year.

Notes

1. This product is for scientific research use only and shall not be used in clinical diagnosis, treatment and other fields.
2. This product must be completely dissolved before use.
3. Wear a lab coat and disposable gloves during operation.

Experimental Procedure

1. After natural thawing of the SDS-PAGE Protein Loading Buffer (5×, Odorless), mix it with the protein sample at a ratio of 1:4.
2. Heat the mixed sample at 100°C or in a boiling water bath for 3 ~ 5 minutes.
3. After the protein sample is fully denatured, cool it to room temperature and centrifuge at 3000 rpm for 30 seconds.
4. Load the sample into the sample wells of the SDS-PAGE gel. Electrophoresis can usually be stopped when the blue dye reaches 0.5 ~ 1 cm from the bottom of the gel.