6xLaemmli SDS sample Buffer

Catalog No.	Description	Size
SAB03-01	6x Laemmli SDS sample Buffer	25 ml
SAB03-02	6x Laemmli SDS sample Buffer	50 ml

Description:

The Laemmli SDS sample Buffer is used for the preparation of protein samples for SDS-PAGE. The buffer contains all the necessary reagents for complete disruption of high-order protein structures. The SDS included in the buffer binds to hydrophobic regions of the protein, causing the protein to unfold and giving it a negative charge. The reducing agent (β-mercaptoethanol or DTT) breaks disulfide bonds and destroys residual secondary structures. As β-mercaptoethanol or DTT is prone to oxidation during multiple freeze-thaw cycles, it needs to be added before use.

Composition

Tris HCl (pH 6.8)	375 mM
SDS	9%
Glycerol	50%
Bromophenol blue	0.03%

Note: Before use, add 90 µl β-mercaptoethanol is needed for 910 µl 6x Laemmli SDS Sample Buffer.

Storage Temperature: Ambient temperature

Procedure

1. Dissolve precipitated solids (if any) in the Sample Buffer at 37°C.
2. Mix gently the Sample Buffer to ensure that the solutions are homogeneous.
3. Add 90 µl β-mercaptoethanol to 910 µl 6x Laemmli SDS sample Buffer and mix.
4. Add **1 µl** of 6x sample Buffer to **5 µl** protein sample and mix. Using 1x Sample Buffer (dilute in ddH_2O or Milli-Q H_2O) to make up the volume difference if needed.
5. Heat samples at 100°C for 5 minutes.
6. Centrifuge briefly and load directly to a SDS polyacrylamide gel.

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