2xTris Glycine SDS sample Buffer (Laemmli)

Catalog No.	Description	Size
SAB01-01	2x Tris Glycine SDS sample Buffer (Laemmli)	25 ml
SAB01-02	2x Tris Glycine SDS sample Buffer (Laemmli)	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)	125 mM
SDS	4%
Glycerol	20%
Bromophenol blue	0.01%

Note: Before use, add 50 µl β-mercaptoethanol is needed for 950 µl 2x 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 50 µl β-mercaptoethanol to 950 µl 2x 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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