4xLaemmli SDS sample Buffer

Catalog No.	Description	Size
SAB02-01	4x Laemmli SDS sample Buffer	25 ml
SAB02-02	4x 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)	250 mM
SDS	8%
Glycerol	40%
Bromophenol blue	0.02%

Note: Before use, add 80 µl β-mercaptoethanol to 920 µl 4x 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 80 µl β-mercaptoethanol to 920 µl 4x Laemmli SDS sample Buffer and mix.
4. Add **1 µl** of 4x sample Buffer to **3 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.

Bioland Scientific LLC 14925 Paramount Blvd., Suite C, Paramount, CA 90723

Tel: (562)602-8882 Fax: (562)733-6008 Email: **service@bioland-sci.com** Online: www.bioland-sci.com