2X Tris-Glycine SDS Sample Buffer

1. Catalog No. KTG020

2. Quantity 20 ml

3. Storage & Stability Store at 4°C

4. Description 2X Tris-Glycine SDS Sample Buffer is used for loading Protein samples for SDS PAGE analysis on Polyacrylamide gels.

5. Recommended Loading Add 1/2 volume of 2X Tris-Glycine SDS Sample Buffer to your protein sample tubes.

6. Protocol

1. Tris-Glycine SDS Sample Buffer does not contain reducing agent. For reducing conditions, add 0.25ml of 2-Mercaptoethanol or 0.1g of DTT to 5ml of Tris-Glycine SDS Sample Buffer (2x) before use.
2. Add one part of sample to one part of Tris-Glycine SDS Sample Buffer (2x) and mix well. Heat the sample at 85℃for 2 minutes.
3. Prepare 800ml of Tris-Glycine SDS Running Buffer (1x) by adding 80ml of Tris-Glycine SDS Running Buffer (10x) to 720ml of deionized water before use. Fill the upper and lower buffer chambers of mini cell with the appropriate amounts of running buffer. Make sure that the upper running buffer covers the sample wells completely.
4. Load sample into the wells. Typically 0.1-0.5ug of protein per band with Coomassie Blue staining will give optical band intensity.
5. Run the gel according to the following running conditions. Commonly a voltage of 125V constant is applied for SDS-PAGE (Laemmli) gels, we recommend a voltage of 150V constant for this gel with Tris-Glycine SDS Buffer.

Voltage	150V constant	
Approx. Current	Start	60mA / 1.0mm gel
	End	25mA / 1.0mm gel
Approx. Run Time	135 minutes	

Turn off the power when the BPB dye is migrated to the end of the gel.

6. After the run, remove the gel from the cassette.
7. Fix, stain or transfer as desired.

*** Buffer composition**

Tris-Glycine SDS Sample Buffer (1x)	
Tris-HCl, pH 6.8	63 mM
Glycerol	10 %
SDS	2 %
Bromophenol Blue	0.0025 %

For research use only; not for use as a diagnostic

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