



Cyrusbioscience

5x SDS-PAGE Loading Buffer

Cat. Number: 20078

Description:

5x SDS-PAGE Loading Buffer is ideal for preparing protein samples to be separated in SDS-polyacrylamide gel electrophoresis (SDS-PAGE) and allows for easy sample monitoring during electrophoresis.

SDS-PAGE Loading Buffer also protects proteins from heat degradation during the sample preparation step, as well against pH changes during the SDS-PAGE run. Some proteins are sensitive to pH changes that result from temperature fluctuations during electrophoresis in Tris buffers. The optimized composition of the loading buffer prevents protein degradation during sample heating prior to SDS-PAGE as well as during the electrophoresis run.

Components:

312 mM Tris-HCl (pH6.8)
10% (w/v) SDS
45% (v/v) Glycerol
1% (w/v) Bromophenol Blue
5% (v/v) β -mercaptoethanol

Procedure:

Just mix 4 volumes of your protein samples with 1 volume of the loading buffer, and heat the samples at 70-90°C for 5 minutes before loading.

Storage:

Store at 4°C, or -20°C for a long period.

The SDS-PAGE loading buffer containing 2-ME (β -Mercaptoethanol) could be stable at RT for about one month.