SDS-PAGE Protein Loading Buffer 5X (Reducing)

Catalog number: AR1112

Boster's SDS PAGE Sample Buffer 5X (Reducing) is the most commonly used sample buffer for Sodium Dodecyl Sulfate - Polyacrylamide Gel Electrophoresis (SDS-PAGE) of denatured proteins in the Laemmli SDS-PAGE system.

This package insert must be read in its entirety before using this product. For research use only. Not for use in diagnostic procedures.

BOSTER
antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566

Phone: 888-466-3604 Fax: 925-215-2184 Email:support@bosterbio.com Web: www.bosterbio.com

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Overview

Product Name	SDS-PAGE Protein Loading Buffer 5X (Reducing)
SKU/Catalog Number	AR1112
Form	Liquid
Size	3mL
Contents	10% SDS, 500mM DTT, 50% Glycerol, 250mM Tris-HCL and 0.5% bromophenol blue dye, PH6.8.
Description	Boster's SDS PAGE Sample Buffer 5X (Reducing) is the most commonly used sample buffer for Sodium Dodecyl Sulfate - Polyacrylamide Gel Electrophoresis (SDS-PAGE) of denatured proteins in the Laemmli SDS-PAGE system.
Equivalent	GeneCopoeia (Product No. P013)
Cite This Product	SDS-PAGE Protein Loading Buffer 5X (Reducing) (Boster Biological Technology, Pleasanton CA, USA, Catalog # AR1112)
Storage	Upon receipt store at -20°C. SDS-PAGE Protein Loading Buffer 5X (Reducing) is stable for one year. Product is shipped on ice.

Assay Principle

Using bromophenol blue dye, SDS-PAGE Protein Loading Buffer is a ready-to-use 5X solution. It contains 10% SDS, 500Mm DTT, 50% Glycerol, 500mM Tris-HCL and 0.5% bromophenol blue dye. It can be used for SDS-PAGE protein loading of conventional proteins. It is especially formulated for protein sample preparation to be used in the Laemmli SDS-PAGE system. It is sufficient to prepare 15 mL protein samples. And the whole sample preparation process can be finished within 5 minutes.

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Assay Protocol

1. Equilibrate SDS-PAGE Protein Loading Buffer 5X to room temperature or thaw Loading Buffer in a water bath no higher than 30°C.
2. Mix one volume of SDS-PAGE Protein Loading Buffer 5X with four volume of protein sample (i.e. add 4mL protein sample into 1 mL Loading Buffer).
3. Boil sample for 3-5 min.
   Note: If semitransparent viscous substance remains after boiling, boil sample for another 5-10 min or add 1X SDS-PAGE Protein Loading Buffer which is diluted from 5X SDS-PAGE Protein Loading Buffer to the sample and then boil for another 3-5 min.
4. Allow sample to cool to room temperature.
5. Load sample into the wells of the SDS-PAGE gel and begin electrophoresis.
6. Stop electrophoresis when bromophenol blue dye front reaches to the bottom of the gel.

General Notes

1. SDS-PAGE Protein Loading Buffer 5X contains DTT which has a slightly irritating odor.
2. SDS-PAGE Protein Loading Buffer 5X should be completely dissolved before use.
3. Please wear the lab coat and disposable gloves and operate in a laboratory hood.