# SDS-PAGE Protein Loading Buffer 2X (Reducing)

## Catalog number: AR0131-20

Boster's SDS PAGE Sample Buffer 2X (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

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# SDS-PAGE Protein Loading Buffer 2X (Reducing)

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## Overview

| | |
|---|---|
| **Product Name** | SDS-PAGE Protein Loading Buffer 2X (Reducing) |
| **SKU/Catalog Number** | AR0131-20 |
| **Form** | Liquid |
| **Size** | 20mL |
| **Contents** | 4% SDS, 20% glycerol, 200mM DTT, 0.01% bromphenol blue and 0.1 M Tris HCl, pH 6.8 |
| **Description** | SDS PAGE Sample Buffer 2X (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** | Millipore Sigma (Product No. S3401); Bio-Rad (Product No. 1610737) |
| **Cite This Product** | SDS-PAGE Protein Loading Buffer 2X (Reducing) (Boster Biological Technology, Pleasanton CA, USA, Catalog # AR0131-20) |
| **Storage** | Upon receipt store at -20°C. It is stable at -20°C for one year. Product is shipped on ice. |

## Assay Principle

Using bromophenol blue dye, SDS-PAGE Protein Loading Buffer is a ready-to-use 2X solution. It contains 4% SDS, 20% glycerol, 200mM DTT, 0.01% bromphenol blue and 0.1 M Tris HCl. 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 12 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 2X 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 2X with one volume of protein sample (i.e. add 1mL 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 2X 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 2X contains DTT which has a slightly irritating odor.
2. SDS-PAGE Protein Loading Buffer 2X should be completely dissolved before use.
3. Please wear the lab coat and disposable gloves and operate in a laboratory hood.