SDS - PAGE Protein Loading Buffer (5X)

CAT: OM750013

Product Introduction

- The SDS - PAGE Protein Loading Buffer (5X) is a modified protein loading buffer dyed with bromophenol blue and 5 - fold concentrated.
- It can be used for loading conventional SDS - PAGE protein samples.

Storage Conditions

Store at - 20°C, valid for at least one year.

Precautions

- The SDS - PAGE Protein Loading Buffer (5X) contains a small amount of DTT and has a slightly pungent odor, but does not contain highly toxic mercaptoethanol.
- The SDS - PAGE Protein Loading Buffer (5X) must be completely dissolved before use.
- This product is only for scientific research by professionals. It must not be used for clinical diagnosis or treatment, food, or pharmaceuticals, and should not be stored in ordinary residential areas.
- For your safety and health, please wear a lab coat and disposable gloves when operating.

Usage Instructions

1. Dissolve the SDS - PAGE Protein Loading Buffer (5X) at room temperature or in a water bath not exceeding 37°C. After dissolution in the water bath, store it at room temperature immediately, and try to avoid keeping it in the water bath for an extended period.
2. Mix the protein sample and the protein loading buffer (5X) at a ratio of 1 μl of protein loading buffer (5X) for every 4 μl of protein sample.
3. Heat at 100°C or in a boiling - water bath for 3 - 5 minutes to fully denature the proteins.
   Note: If the initial amount of cells or tissues is large and the genomic DNA content is high, the sample may still be relatively viscous or have viscous translucent substances after boiling for 3 - 5 minutes. In this case, boil for an additional 5 - 10 minutes or add an appropriate amount of protein loading buffer diluted to 1X and then boil for 3 - 5 minutes. Sufficient boiling can, on the one hand, fully release the proteins bound to genomic DNA, and on the other hand, cause partial fragmentation of genomic DNA, eliminating the viscosity and not affecting subsequent loading operations.
4. After cooling to room temperature, load the sample directly into the wells of the SDS - PAGE gel.
5. Usually, the electrophoresis can be stopped when the blue dye reaches near the bottom of the gel.