

2×protein loading buffer (DTT included)

Item No. : P1018

Specification: 10mL

Storage: -20°C storage, it is recommended to separate frozen storage, to avoid repeated freezing and thawing. Valid for 12 months.

Product Description:

This product is suitable for SDS-PAGE(SDS denatured polyacrylamide gel electrophoresis) as a protein sample. Its main components are SDS, DTT, bromophenol blue, buffer salt solution and so on. SDS can combine with protein to make protein-SDS complex with a large amount of negative charge, then the charge of the protein itself is completely covered by SDS, eliminating the difference in the charge of various proteins, SDS can also break the intramolecular and intermolecular hydrogen bond, destroy the secondary and tertiary structure of protein molecules. DTT can break the disulfide bond between cysteine residues, destroy the protein structure, and eliminate the difference between the protein structures. In the final protein (subunit) without charge or structural difference, electrophoresis speed is only related to the size of its molecular weight. Bromophenol blue is used as an indicator during electrophoresis, giving an approximate indication of the end time of electrophoresis.

Instructions for use (for reference only) :

1. Use the ratio of 20 microliters of loading buffer per 20 microliters of protein sample. If the protein concentration is too high, it can be diluted with double steaming water.
2. After mixing, heat the 100°C water bath for 5-10 minutes to denature the egg whites.
3. Cool to room temperature, centrifuge for a few seconds, mix and then centrifuge for 30 seconds, take the supernatant directly onto the sample.

Notes:

1. When the concentration of polyacrylamide gel is 8%, the position of the bromophenol blue indicator strip is about 30kd; when the glue concentration is 12%, it is about 20kd; when the glue concentration is 15%, it is about 10kd. Please judge the electrophoretic time according to your target strip.
2. This reagent contains DTT and has certain toxicity. For your safety and health, please wear a lab coat and disposable gloves.
3. The protein loading buffer contains bromophenol blue indicator, the PH value is affected by the storage temperature, and the solution may appear dark brown in the cryogenic storage state, which does not affect the use of the product.

Related products:*P1016 4× Protein Loading buffer (containing sulfhydryl reducing agent)*

- P1017 4×non-denatured protein loading buffer*
- P0012 10×Ponceau stain solution*
- P1300 Coomassie Brilliant Blue Quick Dyeing Solution*
- P1300 SDS-PAGE Gel preparation kit*
- PR1700 prestain with secondary high molecular weight protein MARKER*

Related literature:

- [1] Ren Zhang,Ruolun Wei,Wei Du,et al. Long noncoding RNA ENST00000413528 sponges microRNA-593-5p to modulate human glioma growth via pololike kinase 1. CNS Neuroscience & Therapeutics. March 2019. (IF 3.394)
- [2] Zhihua Li,Yanyan Guo,Xiuhua Ren,et al. HDAC2,but not HDAC1,regulates Kv1.2 expression to mediate neuropathic pain in CCI rats. Neuroscience. June 2019; 408:339-348. (IF 3.244)

Note: For more information about this product, please refer to the Solebault website.