

2X Protein Loading Buffer (No Reducing Buffer)

Introduction

2X Protein Loading Buffer (Non-Reducing) is a 5-fold concentrated protein loading buffer. Unlike reducing loading buffers, this product does not contain reducing agents such as DTT or β -mercaptoethanol, thereby preserving the disulfide bonds and higher-order structures of proteins. It is suitable for loading protein samples in non-reducing SDS-PAGE.

Protocol

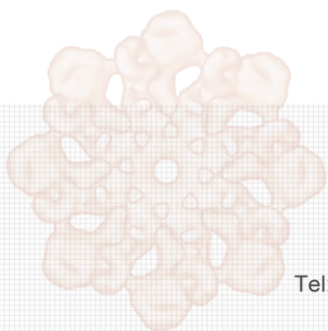
1. Thaw 2X Protein Loading Buffer (Non-Reducing) at room temperature or in a water bath not exceeding 37°C.
2. Add 1 volume of 2X loading buffer to 1 volume of protein sample and mix well.
3. Load the mixture directly onto a non-reducing SDS-PAGE gel. No heating is required.

Note

1. Ensure that 2X Protein Loading Buffer (Reducing) is completely dissolved before use.
2. When using this product for protein denaturation, excessively high temperatures (e.g., 100°C) or prolonged heating (e.g., more than 15 minutes) may cause protein degradation or abnormal dye coloration.
3. The position of the bromophenol blue dye front varies with gel concentration:
 - At 8% polyacrylamide gel, the dye front corresponds to approximately 30 kDa.
 - At 12% gel, the dye front corresponds to approximately 20 kDa.
 - At 15% gel, the dye front corresponds to approximately 10 kDa.

Determine the stopping time based on your target protein size.

4. Shipping and Storage: Shipped with blue ice. Store at -20°C; stable for more than one year.
5. This product is for scientific use only.



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