

## 5X Protein Loading Buffer (No Reducing Buffer)

### Introduction

5X 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  $\beta$ -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

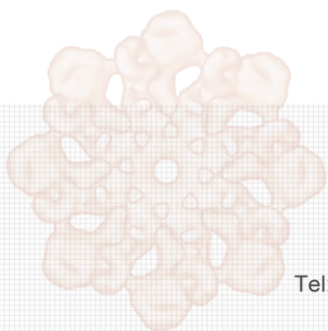
1. Thaw 5X Protein Loading Buffer (Non-Reducing) at room temperature or in a water bath not exceeding 37°C.
2. Add 1 volume of 5X loading buffer to 4 volumes of protein sample and mix well.
3. Load the mixture directly onto a non-reducing SDS-PAGE gel. No heating is required.

### Note

1. Ensure that 5X 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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