

# NeoLoad™ Universal Protein Loading Buffer (5X)

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## 1. Product Description

This product is a modified, 5× concentrated protein loading buffer, using bromophenol blue as the tracking dye. It is suitable for loading routine SDS-PAGE protein samples.

### Product Features:

- Denaturant: Lithium dodecyl sulfate (LDS), providing better low-temperature stability and higher binding efficiency with proteins.
- Reducing Agent: Contains a small amount of DTT with a mild irritating odor; free of β-mercaptoethanol.
- Tracking Dye: Bromophenol blue, offering clear and stable coloration with strong compatibility.
- Versatility: Neutral pH ensures broad applicability.

### Storage Conditions:

The product can be stored at -20 °C for one year.

## 2. Instructions for Use

- Thaw the product at room temperature or in a water bath not exceeding 37°C. Once thawed in a water bath, transfer it to room temperature storage immediately. Avoid prolonged immersion in the water bath.
- Mix the protein sample with the loading buffer at a ratio of 4 μL protein sample to 1 μL of loading buffer.
- Heat the mixture at 100°C for 10 minutes to fully denature the proteins.
- After cooling to room temperature, centrifuge at 12,000 rpm for 10-20 minutes. The supernatant is then ready for direct loading.
- Typically, electrophoresis can be stopped when the bromophenol blue dye front reaches near the bottom of the gel.

## 3. Precautions

- If stored at low temperature, the product may form granular precipitates. Ensure that it is fully thawed and mixed uniformly before use. After use, promptly return it to storage at -20°C.
- Avoid direct contact between the reagent and skin.
- Please wear a lab coat and disposable gloves during operation.

## 4. Related Products

Product	Cat.No.	Size
NeoLoad™ Universal Protein Loading Buffer (5X)	BR0137-02	1ml *10