

4X LDS Loading Buffer

Index

| | |
|-------------------------------|---|
| 1. Product Description | 1 |
| 2. Instructions for Use | 1 |
| 3. Precautions | 1 |
| 4. Related Products..... | 1 |

1. Product Description

This product is a modified, 4× concentrated protein loading buffer containing phenol red and Coomassie Brilliant Blue G-250 as indicators. It can be used for loading protein samples in routine SDS-PAGE.

2. Instructions for Use

- 2.1 Thaw the 4X LDS Loading Buffer at room temperature or in a water bath not exceeding 37°C. After thawing in a water bath, immediately store it at room temperature. Avoid prolonged exposure in the water bath.
- 2.2 Mix the protein sample with the buffer at a ratio of 3 µl protein sample to 1 µl of 4X LDS Loading Buffer.
- 2.3 Heat the mixture at 100°C for 10 minutes to fully denature the proteins.
- 2.4 After cooling to room temperature, centrifuge at 12,000 rpm for 10-20 minutes. The sample is then ready for direct loading.
- 2.5 Typically, electrophoresis can be stopped when the bromophenol blue dye front reaches near the bottom of the gel.

3. Precautions

- 3.1 For your safety and health, please wear a lab coat, disposable gloves, and a mask during operation.
- 3.2 The 4×LDS Loading Buffer must be fully dissolved before use.
- 3.3 The 4×LDS Loading Buffer contains a small amount of DTT, which may produce a mild irritating odor, but does not contain β-mercaptoethanol.
- 3.4 This product is for research use only.

4. Related Products

| Product | Cat.No. | Size |
|------------------------|-----------|---------|
| 4 × LDS Loading Buffer | BR0010-01 | 1ml *10 |