Nova SDS-PAGE gel solution kit

Kit contains:

Cat. No : ALL0000-0250 10% resolving gel solution (250ML)

Cat. No : ALL0000-0060 4% stacking gel solution (60 ML)

Store: 4 °C

Introduction

Many kinds of SDS-PAGE electrophoresis system are widely used in proteomic studies. Among them, the Tris-glycine buffer system is most popular used for researcher because of its higher resolution andconvenienceto prepare. However, the traditional gradient SDS-PAGE is hard to prepared and consistence between lots is also barely to maintain.Nova gel solution is a creative **ALL IN ONE** pre-mixed gel solution. Solutions save time and improve reproducibility. **(acrylamide, tris, SDS, H_2O, and TEMED are included in pre-mixed solution)** specially designed for easy prepare SDS-PAGE gel.

For general Western protocol

Provided by user: APS

A. Prepare resolving gel solution

1. According to the following information to prepare the lower resolving gel by gently mix gel buffer with APS.

resolving gel solution (mL)	10
10% APS (μL)	100
final volume (ml)	10.1

2. Immediately overlay the resolving gel layer with ethanol, butanol, or H_2O to remove bubbles.
3. Wait 40 minutes to complete polymerize the resolving gel layer.
4. Pour off the overlay solution and completely remove it by absorption with filter paper.

B. Prepare stacking gel solution

1. According to the following information to prepare the lower stacking gel by gently mix gel buffer with APS.

stacking gel solution (ml)	2
10% APS (ul)	20
final volume (ml)	2.02

2. Directly insert clean comb, avoid trappingair bubbles and gel solution leakage.The gel should be polymerized after40 minutes at roomtemperature.
3. Carefully remove the comb; gently rinse the lane space by distilled water.

C. prepare sample

1. Add appropriate reducing agent (0.7M -ME, 0.3M DTT, or 0.3M DTE) to 5X sample buffer before use.
2. Dilute 1 part of 5X sample buffer with 3~5 part of quantified protein sample. According to protein maker ladder, each volume of sample buffer mix should be the same by adding lysis buffer you used.
3. Heating at ~90℃ for 5 minutes.
4. Directly load into the well

Electrophoresis

	Stacking	Resolving
Run time	**90~130V for 5min**	**150-170V for 30~50min**

1. Continueperforming electrophoresis until tracking dye is reach to the bottom of the gel
2. During electrophoresis, remember that 5X sample buffer's tracking dye will forming to a small gradient region, but not staking to a sharp band such as traditional bromophenol blue based tracking dye.

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