

SDS-PAGE Gel Solution (WB): An innovative Acrylamide Solution

(Catalog #: WB-150 (15%); WB-100(10%); WB-075(7.5%))

Size: All-In-One gel solution-A (500mL); Pure APS (5.0g).

Storage: 2-8°C.

*** Protocol for a vertical mini-SDS-PAGE gel (8x10cm):**

1. Set the casting frames (clamp two glass plates in the casting frames) on the casting stands.

Note*: Pre-warm the gel solution-A at room temperature might reduce the gel polymerize time.

2. Prepare 10 ml of the **All-In-One gel solution-A** in a clean 50mL tube. Spray/ drop a small amount of APS powders (or add 100uL 10% fresh APS) into the gel solution. Swirl the solution gently and mix up and down for several times.

3. Pipet appropriate amount of the gel solution into the gap between the glass plates. Insert the comb without trapping air under the teeth.

4. Wait for 20-30 minutes and the gel is ready to use for protein electrophoresis.

**** Protocol for a horizontal mini-SDS-PAGE gel (8x10cm):**

5. Set the horizontal gel tray with the combs.

Note*: Pre-warm the gel solution-A at room temperature might reduce the gel polymerize time.

6. Prepare 20-30 ml of the **All-In-One gel solution-A** in a clean 50mL tube. Spray/ drop a small amount of APS powders (4-5 times of pushing the APS bottle) into the gel solution. Swirl the solution gently and mix up and down for several times.

7. Pour the gel solution into the gel tray and remove the air bubbles.

8. Wait for 10-12 minutes and the gel is ready to use for protein/DNA electrophoresis.

Note*: If the time for the gel polymerization is too long (more than 20 minutes) or the gel surface becomes not smooth, these problems were caused by not enough APS powders.

Additional informations:

<u>Acrylamide (%)</u>	<u>M.W. Range</u>	<u>Thickness of the gel</u>	<u>Volumes of the gel solution</u>
7.5%	50 kDa - 500 kDa	0.75mm	6.0 mL
10%	20 kDa - 300 kDa	1.0 mm	10 mL
15%	3 kDa - 100 kDa	1.5 mm	12 mL

Precautions and Disclaimer: This product and procedure described are intended for R&D use only. Purchase of this product does not convey a license to perform any patented process.