

★ Storage

Store at 4°C.
Stable for 6 months from your receipt.

★ Contents

- Product Manual
- SDS-PAGE Stacking Gel Casting Solution

ALL PRODUCTS SOLD BY GenDEPOT ARE INTENDED FOR RESEARCH USE ONLY UNLESS OTHERWISE INDICATED. THIS PRODUCT IS NOT INTENDED FOR DIAGNOSTIC OR DRUG PURPOSE

★ Shipping Condition

Ship with ice pack.

★ Introduction

SDS-PAGE Stacking Gel Casting Solution is ready-to-use premixed solution of SDS, Tris-HCl Buffer and polymerization reagent. All you need to do is mix it with your ammonium persulfate (APS) and acrylamide;bis solution. For added convenience, SDS-PAGE Gel Casting Solution contains a polymerization reagent which allows you to add TEMED.

★ Required reagents

- * Ammonium Persulfate (APS)
- * 30% Acrylamide/Bis-acrylamide solution

★ Precaution

This product contains SDS that causes irritation to skin, eyes, and respiratory tract. When working with this solution, always wear suitable lab coat and disposable gloves.

★ Protocol

1. Make fresh 10% Ammonium Persulfate.
2. Assemble the gel casting apparatus.
3. Prepare the resolving gel solution according to the acrylamide concentration needed.

Final acylamide conc.	8%	10%	12%	15%
30% Acrylamide/Bis-acrylamide	2.7	3.3	4	5
H ₂ O	4.2	3.6	2.9	1.9
Resolving gel Casting Sol.	3	3	3	3
10% APS	0.1	0.1	0.1	0.1
Total (ml)	10	10	10	10

4. Tightly cap the tube and gently invert the solution to mix (DO NOT VORTEX!) Pour the solution between the glass plates. Leave sufficient space for the stacking gel (the length of the teeth of the comb plus 1cm). Overlay isobutanol or deionized water. Place the gel in a vertical position at room temperature.

5. After polymerization is complete, pour off the overlay and wash the top of the gel several times with deionized water to remove any unpolymerized acrylamide. Drain as much fluid as possible from the top of the gel, and then remove any remaining water with edge of a paper towel.

6. Prepare the appropriate volume of Stacking gel Solution.

Final volume of Stacking gel	1 ml	3 ml	5 ml	10 ml
30% Acrylamide/Bis-acrylamide	0.17	0.5	0.83	1.7
H ₂ O	0.52	1.57	2.62	5.2
Stacking gel Casting Sol.	0.3	0.9	1.5	3
10% APS	0.01	0.03	0.05	0.1
Total (ml)	1	3	5	10

7. Pour the Stacking gel solution directly onto the surface of the polymerized resolving gel.

8. Immediately insert clean comb, being careful to avoid trapping air bubbles. Place the gel to polymerize completely at room-temperature, about 15 minutes to 1 hour.

9. After polymerization is complete remove the comb carefully and rinse well with water or running buffer to remove unpolymerized acrylamide and residual gel pieces.

10. Assemble gel system and add sufficient SDS-PAGE Running buffer diluted from the supplied 10X stock to the top and bottom reservoirs.

★ Related Products

Product Name	Cat No
Albumin, Ultra Pure Bovine Serum Albumin	A0100
Xpert Protease Inhibitor Cocktail Solution (100X)	P3100
Xpert 2 Prestained protein marker	P8503
Tween 20, Molecular Biology Grade	P9100
West-Ez Blocking Buffer, 3% BSA	W3710
West-Q Chemiluminescent Substrate Kit	W3650
West-Q Chemiluminescent Substrate Kit, Plus	W3651
West-Ez Stripping Buffer	S2100