

Precast Gel for SDS-PAGE

Bullet PAGE One Precast Gel

Isocratic gel			Gradient gel		
Product No.	Gel (%)	Wells	Product No.	Gel (%)	Wells
13081-34	6	13	13077-04	5 - 11	13
13082-24		17	13078-94		17
13083-14	8	13	13079-84	5 - 15	13
13084-04		17	13080-44		17

Features

- Short SDS-PAGE running time : about 10 minutes
- Usable with conventional Laemmli buffer system
- 17-well gels are compatible with multi-channel pipettes
- High transfer efficiency in western blotting

Specifications

Plate size	80mm(H) × 100mm(W) × 3.2mm(T) (Glass Plate)
Gel size	60mm(H) × 80mm(W) × 1mm(T)
Well number	13 wells, 17 wells
Well volume (μl/well)	13wells : 40μl; 17wells : 28μl

Protocol

These products are compatible with SDS-PAGE using Laemmli's method. Therefore, the running buffer and sample buffer can use the Laemmli method composition as usual.

Reagents

- Running buffer (*1)
25mmol/L-Tris, 192mmol/L-Glycine, 1g/L-SDS
(*1) Related product :
Running Buffer Solution(10x) for SDS-PAGE, Tris - Glycine (Product No. 30329)
- Sample buffer (*2)
0.125mol/L-Tris-HCl, 40g/L-SDS, 20(v/v)% Glycerol, 0.01(w/v)% BPB, 10(v/v)% 2-Mercaptoethanol (pH6.8) (2×)
(*2) Related products :
Sample Buffer Solution with 2-ME (2x) for SDS-PAGE (Product No. 30566)
Sample Buffer Solution without 2-ME (2x) for SDS-PAGE (Product No. 30567)
Sample Buffer Solution with Reducing Reagent(6x) for SDS-PAGE (Product No. 09499)
Sample Buffer Solution without Reducing Reagent (6x) for SDS-PAGE (Product No. 09500)

Protocol

1. Take the gel from package and remove the comb.
2. Set the gel on the electrophoresis device.
3. Pour the running buffer. Be careful not to trap air bubbles under the gel.
4. Apply the sample to the wells.
5. Run electrophoresis at 400V of constant voltage (electrophoresis time is about 10minutes).
* Other conditions: 300V (about 17 minutes), 200V (about 30 minutes)
6. Stop electrophoresis and take the gel from electrophoresis device.
7. Remove the gel from glass plates and move the gel in the tray for staining.
8. Detect the protein by staining.

Attention

- Check the electrophoresis device (compatible glass plate sizes, etc.) and output of power supply (maximum voltage, etc.). We recommend the electrophoresis device from Gellax International Co., Ltd. (Product No. WEP-N).
- Electrophoresis should run below 400V of constant voltage.
- Electrophoresis time will be influenced by the temperature of the running buffer and the concentration of acrylamide in the gel (T%).
- The recommended application volume is below the half of well volume. (13-well type: below 20 μ l, 17-well type: below 14 μ l)
- Gel buffer contains 0.02(w/v)% sodium azide.

Reference

Laemmli, U.K. : Nature, 227, 680 (1970)

Storage

Refrigerator (4 - 10 C) (do NOT freeze)

Expiration

9 months from manufacturing. Expiration date is stated on the product label (Exp. yy/mm)

Packing

10 sheets per package