HB220428

GoldBand Plus 3-color High Range Protein Marker(25-300 kDa)

Product Information

Product name	Cat#	Size
Gold Band Plus 3-color High Range Protein Marker(25-300 kDa)	20347ES72	250 μL
	20347ES76	2×250 μL
	20347ES90	10×250 μL

Product Description

This product consists of 9 highly purified and prestained proteins ranging in molecular weight from 25 kDa to 300 kDa(25,45,72, 100,130,160,200,250,300 kDa), among them, 72 kDa is orange band, 25 kDa is green band. The labeled apparent molecular weight was calibrated by the molecular weight Marker of standard non-prestained proteins. Using this product, the state of protein electrophoresis and the effect of membrane transfer can be dynamically observed. After SDS-PAGE electrophoresis, the color bands were transferred to PVDF membrane and NC membrane. This product is conveniently packaged and is a ready-to-use product, do not heat, dilute or add reducing agents!

After the prestained protein is combined with the dye, in different buffer systems, there is displacement. There are signs in the instructions, this product is only for reference when judging the molecular weight of the target protein.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C for two years. For regular use, it can be placed at 4°C, valid for three months. It is recommended to store in aliquots to avoid repeated freezing and thawing!

stock solution composition

62.5 mM Tris-H_3PO_4(pH 7.5), 2 mM EDTA, 2% (W/V) SDS, 33% (W/V) Glycerol, 5 mM DTT, 0.02% (V/V) proclin300

Instructions

1. After the product is thawed at room temperature, mix gently to fully dissolve the precipitate.
2. Then take an appropriate amount of this product into the gel hole. mini-gel: 3-5 μL; Western blotting: 1.5-2.5 μL; when the thickness of the gel is greater than 1.5 mm, the loading volume can be appropriately increased.

Cautions

1. The product needs to be returned to room temperature before use to fully dissolve the precipitate. Incomplete protein denaturation at low temperature may lead to different degrees of dispersion of electrophoresis bands.
2. In western blot experiments, large proteins (>100 kDa) in the product may require longer transfer times or higher transfer voltages to complete transfer. If the effect is not good, it is suggested to fine-tune the formula of membrane solution, reduce methanol dosage, and add a small amount of SDS (final concentration does not exceed 0.1%).
3. This product contains SDS, and the protein has been denatured, so it should not be used as a molecular weight reference standard for natural protein molecular electrophoresis.
4. The product will have deviations in protein size under different electrophoresis conditions, but after they are calibrated by non-prestained protein standards in the same buffer system, they can be used for protein determination of similar molecular weights.
5. At low concentration of gel, low molecular weight protein will swim on the dye front.
6. This product is conveniently packaged and is a ready-to-use product, do not heat, dilute, or add reducing agents!
7. For your safety and health, please wear lab coats and disposable gloves for operation.
8. For research use only!

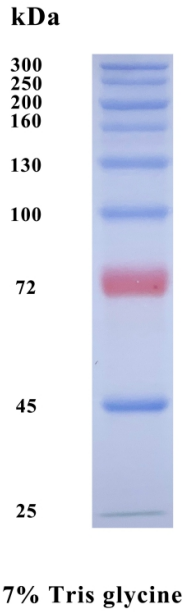

Figure 1. 7% SDS-PAGE electrophoresis results

Attached table Under different electrophoresis buffer conditions, the position each band of this product

Gel type	Tris-Glycine			Tris-Acetate		Bis-Tris	
Gel concentration	6%	7%	B4-20%	6%	T3-8%	T4-12%	T4-12%
Running buffer	Tris-Glycine			Tris-Acetate		MES	MOPS
% length of gel	Apparent Molecular Weights, kDa						
10	300	300	300	300	300	300	300
20	250	250	250	250	250	250	250
30	200	200	200	200	200	200	200
40	160	160	160	160	160	160	160
50	130	130	130	130	130	130	130
60	100	100	100	100	100	100	100
70	72	72	70	65	65	65	65
80	45	45	45	45	45	45	45
90	25	25	25	25	25	25	25
100							