



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

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.

Components

Components No.	Name	20347ES72	20347ES76	20347ES90
20347	GoldBand™ Plus 3-color High Range Protein Marker (25-300 kDa)	250 μL	2×250 μL	10×250 μL

Shipping and Storage

The product is shipped with dry ice and can be stored at -25°C ~ -15°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-H₃PO₄(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. this color prestained protein Marker is usually used for loading 10 μL each time.

Notes

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. Please wear the necessary PPE, such lab coat and gloves, to ensure your health and safety!
8. For research use only!

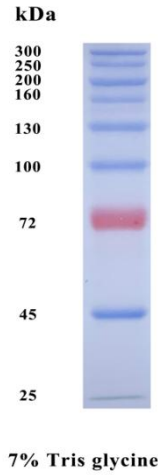


Figure1. 7% SDS-PAGE electrophoresis results

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
		Apparent Molecular Weights, kDa						
% length of gel ↓	10		300	300	300		300	300
	20	300	300	300	300		300	300
	30	250	200	250	250		250	250
	40	200	160	200	200	300	200	200
	50	160	130	160	160	250	160	160
	60	130	100	130	130	200	130	130
	70	100	72	100	100	160	100	100
	80	72	45	70	70	130	65	65
	90	45	25	45	45	100	45	45
	100	25	25	25	25	65	25	25