



YamayBio

Tricolor Prestained Protein Ladder 10-180 kDa (Orange, Green & Blue)

USER MANUAL

For research use only.
Not for use in diagnostic procedures.

Contents and Storage

Tricolor Prestained Protein Ladder 10-180 kDa (Orange, Green & Blue)

CY5463-500 250 µL×2

CY5463-2500 250 µL×10

Storage: Store at 4 °C for 6 months or store at -20 °C for 24 months.

Product shipped at room temperature.

Introduction

This product is a three-color protein standard with 10 prestained proteins (10 to 180 kDa) for use as molecular weight markers in protein electrophoresis (SDS-PAGE) and western blotting. Proteins are covalently coupled to a blue chromophore except for two reference bands (one green at 25 kDa and one red at 70 kDa) when separated by SDS-PAGE using Tris-Glycine SDS buffer.

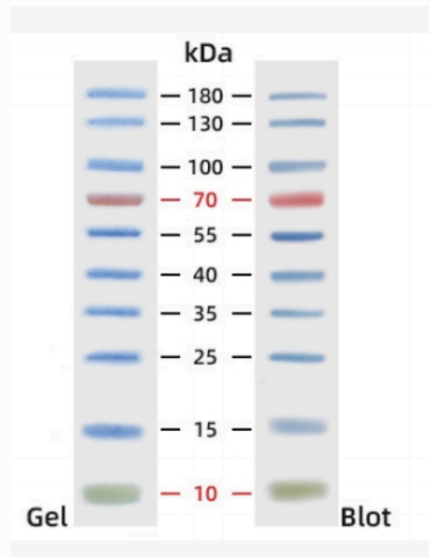
The protein ladder is conveniently provided in a ready-to-use form, allowing for direct application to gels without the requirement of heating, reducing, or the addition of sample buffer.

Storage Buffer: 62.5 mM Tris-HCl (pH 7.5 at 25 °C), 1 mM EDTA, 2% (w/v) SDS, 10 mM DTT, 0.02% NaN₃, 33% (w/v) glycerol.

Instructions for Use

- Tricolor Prestained Protein Ladders are provided in sample buffer, ready to load, with no dilution required.
- Allow the tube to reach room temperature and mix thoroughly before use. This will ensure that any solids that may have precipitated return to solution.
- Do not heat the product above room temperature.

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(Orange, Green & Blue)



4%-20% Tris-Glycine-SDS PAGE

Recommended Loading Volumes

Load Volume	Application
5-7 μ L	Blotting Mini gels (8.3 $\times$ 6.4 cm) and Midi gels (13.3 $\times$ 8.7 cm)
7-10 μ L	Large gels (18.3 $\times$ 19.3 cm) electrophoresis and 1.5mm thick gels

Migration Patterns of Tricolor Prestained Protein Ladder

Gel type		Tris-Glycine						Bis-Tris					
Gel concentration		6%	7.5%	10%	12.5%	15%	4-20%	8%	10%	12%	4-12%	4-20%	
Running buffer		Tris-Glycine						MOPS					
		Apparent Molecular Size (kDa)											
% Length of gel	10				180	180	180						
	20		180		130	130	130	160	160	160	160	160	
	30				100	70	100	120	120	80	120	120	
	40	180				70	100	80	68	48	80	68	
	50		100		50	40	50	68	48	38	68	48	
	60	130	70		40	35	40	48	38	25	48	38	
	70				35	25	25	38	30	25	38	30	
	80	100			25		25	30	25	15	25	25	
	90		50			15	15	25	15		15	15	
	100	70	35			10	10	15	10	10	15	10	

Related products

Product	Cat. No.	Quantity
Stain-Free Bis-Tris Precast Gels, 8%, 12 wells	AN9321-10	10 Pieces / Box
Stain-Free Bis-Tris Precast Gels, 8%, 15 wells	AN9351-10	10 Pieces / Box
Stain-Free Bis-Tris Precast Gels, 10%, 12 wells	AN9322-10	10 Pieces / Box
Stain-Free Bis-Tris Precast Gels, 10%, 15 wells	AN9352-10	10 Pieces / Box
Stain-Free Bis-Tris Precast Gels, 12%, 12 wells	AN9323-10	10 Pieces / Box
Stain-Free Bis-Tris Precast Gels, 12%, 15 wells	AN9353-10	10 Pieces / Box
Stain-Free Bis-Tris Precast Gels, 4-12%, 12 wells	AN9324-10	10 Pieces / Box
Stain-Free Bis-Tris Precast Gels, 4-12%, 15 wells	AN9354-10	10 Pieces / Box
Stain-Free Bis-Tris Precast Gels, 4-20%, 12 wells	AN9325-10	10 Pieces / Box
Stain-Free Bis-Tris Precast Gels, 4-20%, 15 wells	AN9355-10	10 Pieces / Box