



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 μ L $\times$ 2

CY5463-2500 250 μ L $\times$ 10

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

Product shipped at room temperature.

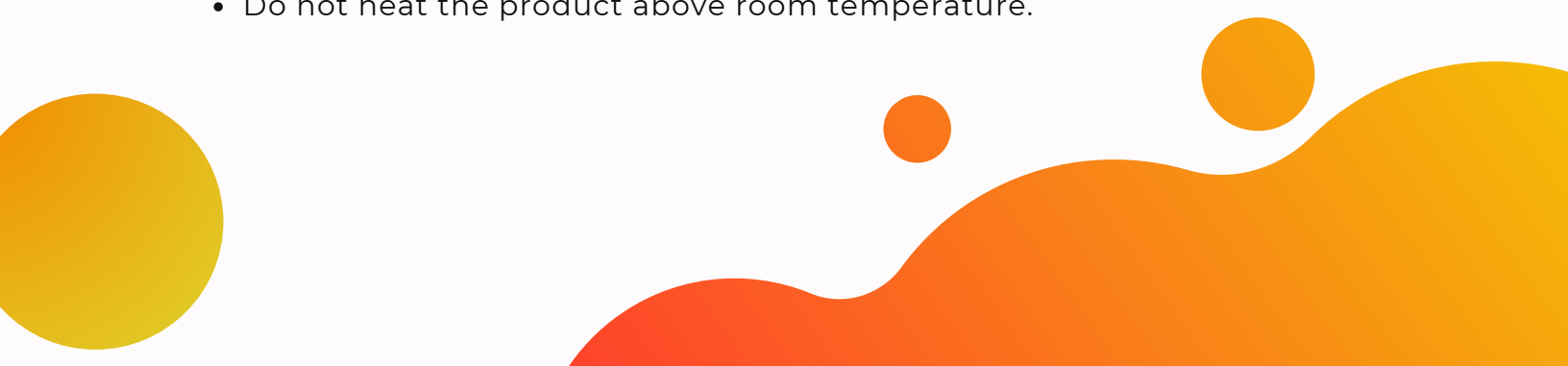
Introduction

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.

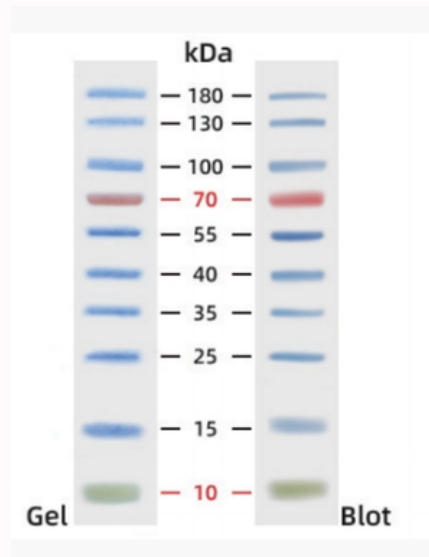
The protein ladder is conveniently provided in a ready-to-use form, allowing for direct application to gels without the requirement of heating, reducing, or the addition of sample buffer.

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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Tricolor Prestained Protein Ladder 10 kDa-180 kDa
(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					Gradient-like
Gel percentage		6%	7.5%	10%	12.5%	15%	4-20%	8%	10%	12%	4-12%	4-20%	-
Running buffer		Tris-Glycine						MOPS					GL buffer
		Apparent Molecular Size (kDa)											
% Length of gel	10			180	180	180	180						180
	20		180	130	130	130	130	180	160	160	160	160	130
	30			100	100	100	100	120	120	120	120	120	100
	40	180		70	55	40	35	80	80	80	80	80	70
	50		100		55	40	25	55	48	38	38	38	55
	60			70	40	35	15	48	38	30	25	25	40
	70				35		15	38	25	15	15	15	35
	80		100	55	25		10	30	25	15	15	15	25
	90			40		15		25	15	10	10	10	15
	100			35		10		15	10	15	15	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