



YamayBio

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

INSTRUMENT MANUAL

Research use only.
Not for diagnostic procedures.

Contents and storage

Tricolor Prestained Protein Ladder 10 kDa-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 pre-stained proteins (10 to 180 kDa) for use as molecular weight markers in protein electrophoresis (SDS-PAGE) and western blotting. Proteins are covalently coupled with a blue chromophore except for two reference bands (one green and one red band at 10 kDa and 70 kDa respectively) when separated on SDS-PAGE (Tris-glycine-SDS buffer).

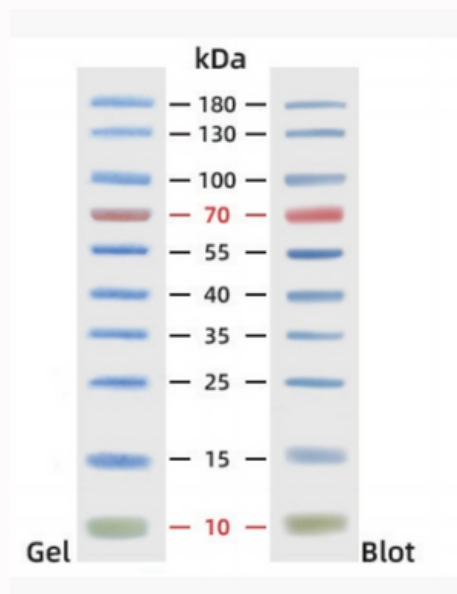
The protein ladder is conveniently provided in a ready-to-use form, allowing for direct application to gels without the requirement of heating, reducing, or the addition of sample buffer.

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.

Instruction 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 thoroughly mix 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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4%-20% Tris-Glycine-SDS PAGE

Recommendations for Loading

Load Volume	Application
5~7 μ L	Blotting mini(8.3W $\times$ 6.4L cm) gels and midi gels(13.3W $\times$ 8.7L cm)
7~10 μ L	Large(18.3W $\times$ 19.3L cm) gel 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					130	130	130										
		30					100	100	100										
		40	180				70	50	40	35	70	68	48	38	30	25	15	10	
		50					50	40	35	25	48	38	30	25	15	10			
		60	130	70			40	35	25	15	10								
		70					25	15	10										
		80	100				15	10											
		90	70	35			10												
		100																	

Related products

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