

For Research Use Only

Broad Range Prestained Protein Marker

Catalog Number: PL00002



Description

The PL00002 Broad Range Protein Marker is a ready-to-use three-color protein standard with 13 prestained proteins covering a wide range of molecular weights from 3 to 245 kDa in Tris-Glycine buffer. The PL00002 Broad Range Prestained Protein Marker is designed for monitoring protein separation during SDS-polyacrylamide gel electrophoresis, verification of Western transfer efficiency on membranes (nitrocellulose, PVDF, or nylon) and for estimating the size of proteins. The PL00002 Broad Range Protein Marker is also suitable for fluorescence WB detection.

Product Information

Approximately 0.1~0.4 mg/ml of each protein in the buffer (20 mM Tris-phosphate (pH 7.5 at 25°C), 2 % SDS, 0.2 mM Dithiothreitol, 3.6 M Urea, and 15 % (v/v) Glycerol).

Package

500 µL

Storage

Store product at 4°C for up to 12 weeks. For longer storage, aliquot and store at -20°C for up to 1 year.

Molecular Weight

~ 3, 10, 15, 20, 25, 35, 45, 60, 75, 100, 140, 180, 245 kDa

Number of Markers

13

Size Range

3 to 245

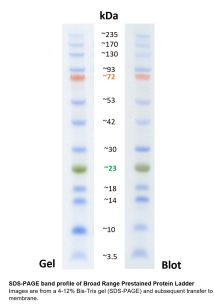
Stain Type

3 colors: Blue, Red, Green

Detection Method

Colorimetric

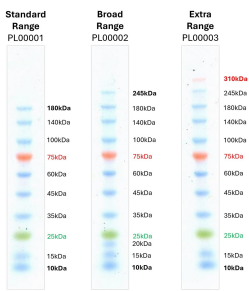
Validation Data



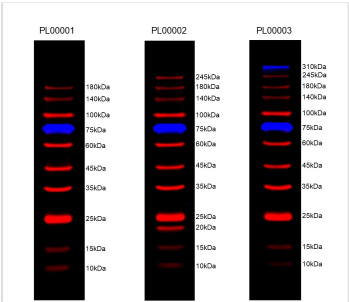
SDS-PAGE band profile of Broad Range Prestained Protein Ladder: Resolution of the Broad Range Prestained Protein Ladder in a 4-12% Bis-Tris gel (SDS-PAGE). The image shows the migration pattern in the gel and after transfer to a PVDF membrane.

Gel Type	Tris-Glycine			Tris-Acetate		Bio-Tris		
	Gel Concentration			3-8%		4-12% MES		
	4-20%	10-20%	8%	12%	3-8%	4-12%	10%	12%
Running Buffer								
Tris-Glycine								
Tris-Acetate								
Bio-Tris								
MES								
Apparent Molecular Sizes (kDa)								
% Length of Gel	10	140	120	100	100	100	100	100
	20	140	120	100	100	100	100	100
	30	140	120	100	100	100	100	100
	40	140	120	100	100	100	100	100
	50	140	120	100	100	100	100	100
	60	140	120	100	100	100	100	100
	70	140	120	100	100	100	100	100
	80	140	120	100	100	100	100	100
	90	140	120	100	100	100	100	100
	100	140	120	100	100	100	100	100

SDS-PAGE band profile of Broad Range Prestained Protein Ladder: Migration patterns of Broad Range Prestained Protein Ladder in different electrophoretic conditions. The apparent molecular weight of each protein (kDa) has been determined by calibration of each protein against an unstained protein ladder in specific electrophoresis conditions. Migration patterns were determined using commercial precast mini gels.



The prestained protein ladders were resolved in an 8-16% Tris-glycine gel (SDS-PAGE). The image shows a comparison of the migration patterns on the gel for our standard (PL00001), broad (PL00002), and extra broad (PL00003) range ladders



Protein ladder tested with the Bio-Rad: 2 uL protein ladders were loaded in the 8%-18% Tris-glycine gel, then electrophoresed and transferred into the PVDF membrane. After blocking, this dual-channel image was taken directly by the Bio-Rad ChemiDoc MP Imaging System in the 550 nm (for 75 kDa and 310 kDa) and 680 nm (except 75 kDa and 310 kDa) range.