

Product Information

iPro™

Prestained Protein Ladder II , 8 to 245 kDa

PM02

Size: 500 μ l
5 μ l per well for 100 applications

Storage

4°C for 3 months
-20°C for long term storage

Loading Volume

- **3 μ l or 5 μ l** per loading for clear visualization during electrophoresis on a 15-well or 10-well mini-gel.
- **1.5~2.5 μ l** per well for general Western blotting transfer.
- Apply more for a thicker (> 1.5 mm) or larger gel.

Description

The PM02 iPro™ Prestained Protein Ladder II, 8 to 245 kDa, is a ready to use three-color protein standard with 11 pre-stained proteins covering a wide range of molecular weights from 10 to 245 kDa (8 to 235 kDa in Bis-Tris (MOPS) buffer and 8 to 235 kDa in Bis-Tris (MES) buffer). Proteins are covalently coupled with a blue chromophore except for two reference bands (one **green** and one **red** band at 10 kDa and 72 kDa respectively) when separated on SDS-PAGE (Tris-Glycine buffer). The PM02 iPro™ Prestained Protein Ladder is designed for monitoring protein separation during SDS-PAGE electrophoresis, verification of Western transfer efficiency on membranes, (PVDF, nylon, or nitrocellulose) and for approximating the size of proteins.

The marker is supplied in gel loading buffer and is ready to use. **Do NOT heat, dilute, or add reducing agents before loading.**

Contents

Prestained recombinant proteins 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).

Quality Control

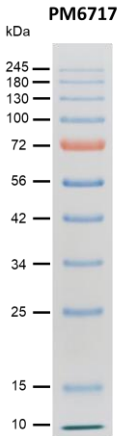
Under suggested conditions, PM02 iPro™ Prestained Protein Ladder II, 8 to 245 kDa, resolves 11 major bands in SDS-PAGE (Tris-Glycine, MOPS, and MES buffer) and after Western blotting transfer to a nitrocellulose membrane.

Other information

Bioland Scientific LLC claims all warranties with respect to this document, expressed or implied, including but not limited to those of merchantability or fitness for a particular purpose. In no event shall Bioland Scientific LLC be liable, whether in contract, tort, warranty, or under any statute or any other basis for special, incidental, indirect, punitive, multiple or consequential damages in connection with or arising from this document, including but not limited to the use thereof.

Caution: Not intended for human or animal diagnostic or therapeutic uses.

iPro™ Prestained Protein Ladder II, 8 to 245 kDa



Tris-Glycine SDS-PAGE

Note. The apparent molecular weight (kDa) of each protein has been determined by calibration against an unstained protein standard; supplemental data should be considered for more accurate adjustments in different electrophoresis conditions.

Migration Patterns of PM02 Prestained Protein Ladder II, 8 to 245 kDa

Gel type		Tris-Glycine						
Gel concentration		4-20%	8-16%	10-20%	8%	10%	12%	15%
Running buffer		Tris-Glycine						
		Apparent Molecular Weight, kDa						
% length of gel	10			245 180	245	245 180	245 180 130 100	245 180 130 100
	20	245 180 130	245 180 130	130 100	180 130	130 100	72	72
	30	100	100	72	100	72	56	42
	40	72		56	72	56	42	34
	50	56 42	72 56	42 34	56	42 34	25	25
	60	34	42	25				
	70	25	34		42	25	15	15
	80	15	25	15	34			
	90	10	15	10	25 15	15	10	10
	100		10			10		

Migration Patterns of PM02 Prestained Protein Ladder II, 8 to 245 kDa

Tris-Acetate		Bis-Tris						Hepes-Tris
3-8%	7%	4-12%		10%		12%		4-20%
Tris-Acetate		MOPS	MES	MOPS	MES	MOPS	MES	Hepes
Apparent Molecular Weight, kDa								
235	235	235	235	235	235	235	235	
170	170	170	170	170	170	170	170	
125	125	120	120	120	120	120	120	
92	92	92	92	92	92	92	92	
66	66	66	66	66	66	66	66	230
50	50	50	50	50	50	50	50	170
40	40	40	40	40	40	40	40	125
31	31	30	30	30	30	30	30	90
25	25	23	23	23	23	23	23	66
		14	14	14	14	14	14	50
		8	8	8	8	8	8	40
								30
								25
								15
								8