



SMOBio
Small Bio, Smart Tool

Product Information

ExcelBand™ series

3-color Pre-Stained Protein Ladder, Broad Range (3.5-245 kDa)

PM5200

Size: 250 μ l \times 2
5 μ l per well for 100 applications

Storage

4°C for 3 months
-20°C for 24 months

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 ExcelBand™ 3-color Pre-Stained Protein Ladder, Broad Range (PM5200) is a ready to use three-color protein standard with 15 pre-stained proteins covering a wide range of molecular weights from 5 to 245 kDa in Tris-Glycine buffer (3.5 to 235 kDa in Bis-Tris (MOPS) buffer and Bis-Tris (MES) buffer). Proteins are covalently coupled with different chromophores for easy identification of bands, with three reference proteins carrying enhanced intensity corresponding to a **blue** band at 20 kDa, **green** at 40 kDa, and **red** at 75 kDa, respectively, as separated on SDS-PAGE (Tris-Glycine buffer).

The ExcelBand™ 3-color Pre-Stained Protein Ladder, Broad Range (PM5200) is designed for monitoring protein separation during SDS-polyacrylamide gel electrophoresis, verification of Western transfer efficiency on membranes (PVDF, nylon, or nitrocellulose), and for approximating protein size.

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

Contents

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).

Guide for Molecular Weight Estimation

Migration patterns and approximate MWs (kDa) of ExcelBand™ 3-color Pre-Stained Protein Ladder, Broad Range (PM5200) in different electrophoresis conditions are listed below:

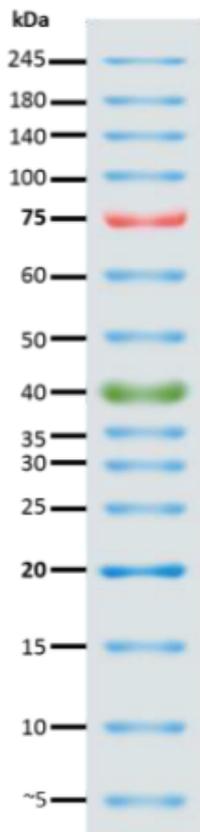
Band	Color	TRIS-GLYCINE	BIS-TRIS (MOPS)	BIS-TRIS (MES)	
1	Blue	245	235	235	
2	Blue	180	170	170	
3	Blue	140	130	130	
4	Blue	100	93	93	
5	Red	75	70	72	
6	Blue	60	53	53	
7	Blue	50	43	44	
8	Green	40	34	36	
9	Blue	35	30	30	
10	Blue	30	26	26	
11	Blue	25	22	23	
12	Blue	20	18	18	
13	Blue	15	14	14	
14	Blue	10	9	10	
15	Blue	~5	~3.5	~3.5	





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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.

Quality Control

Under suggested conditions, ExcelBand™ 3-color Pre-Stained Protein Ladder, Broad Range (PM5200) resolves 15 major bands in SDS-PAGE (Tris-Glycine, MOPS, and MES buffer) and after Western blotting transfer to a nitrocellulose membrane.

Other information

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