



SMOBIO

Small Bio, Smart Tool

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Product Information

**ExcelBand 3-color Pre-Stained Protein Marker,
Broad Range (3.5-245 kDa)**

PM2700

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

Storage

4°C \geq 3 months
-20°C \geq 24 months

Loading Volume

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

Description

The PM2700 3-color Pre-Stained Protein Marker is a ready to use three-color protein standard with 13 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 two reference proteins carrying enhanced intensity corresponding to a **green** at 25 kDa and **red** at 75 kDa, respectively, as separated on SDS-PAGE (Tris-Glycine buffer).

The PM2700 3-color Pre-Stained Protein Marker 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 the size of proteins.


The marker is supplied in gel loading buffer and is ready to use. **Do NOT heat, dilute and add reducing agent 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 (kDa)

Migration patterns of PM2700 3-color Pre-Stained Protein marker in different electrophoresis conditions are listed below:

Color	TRIS-GLYCINE	BIS-TRIS (MOPS)	BIS-TRIS (MES)	
Blue	245	235	235	
Blue	180	170	170	
Blue	140	130	130	
Blue	100	93	93	
Red	75	70	72	
Blue	60	53	53	
Blue	45	41	42	
Blue	35	30	30	
Green	25	22	23	
Blue	20	18	18	
Blue	15	14	14	
Blue	10	9	10	
Blue	~5	3.5	3.5	

4-12% BIS-TRIS gel MES buffer

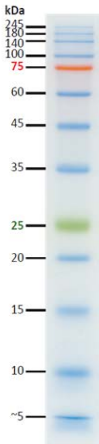


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15% Tris-Glycine



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 adjustment in different electrophoresis conditions.

Quality Control

Under suggested conditions, PM2700 3-color Pre-Stained Protein Marker resolves 13 major bands in SDS-PAGE (Bis-Tris gel, MES buffer) and after Western blotting to nitrocellulose membrane.

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

Related Products

- PM1500 ExcelBand All Blue Regular Range Protein Marker, 250 μ l \times 2
- PM1600 ExcelBand All Blue Regular Range Plus Protein Marker, 250 μ l \times 2
- PM1700 ExcelBand All Blue Broad Range Protein Marker, 250 μ l \times 2
- PM2400 ExcelBand Pink Blue Protein Marker, 250 μ l \times 2
- PM2500 ExcelBand 3-color Regular Range Protein Marker, 250 μ l \times 2
- PM2600 ExcelBand 3-color High Range Protein Marker, 250 μ l \times 2
- PM5000 ExcelBand 3-color Pre-stained Protein Ladder, Regular Range, 250 μ l \times 2
- PM5100 ExcelBand 3-color Pre-stained Protein Ladder, High Range, 250 μ l \times 2
- PM5200 ExcelBand 3-color Pre-stained Protein Ladder, Broad Range, 250 μ l \times 2
- PS1000 FluoroStain Protein Fluorescent Staining Dye (Red, 1,000X), 1 ml
- PS1001 FluoroStain Protein Fluorescent Staining Dye (Red, 1,000X), 1 ml \times 5
- DM1160 FluoroBand 50 bp Fluorescent DNA Ladder, 500 μ l
- DM2160 FluoroBand 100 bp Fluorescent DNA Ladder, 500 μ l

- DM2360 FluoroBand 100 bp+3K Fluorescent DNA Ladder, 500 μ l
- DM3160 FluoroBand 1 KB (0.25-10 kb) Fluorescent DNA Ladder, 500 μ l
- DM3260 FluoroBand 1 KB Plus (0.1-10 kb) Fluorescent DNA Ladder, 500 μ l
- DM4160 FluoroBand XL 25 kb Fluorescent DNA Ladder, Broad Range (up to 25 kb), 500 μ l
- DL5000 FluoroDye DNA Fluorescent Loading Dye (Green, 6X), 1ml
- DS1000 ExcelStain DNA Fluorescent Staining Dye (Green, 10,000X), 500 μ l
- DS1001 ExcelStain DNA Fluorescent Staining Dye (Green, 10,000X), 500 μ l x 5
- VE0100 B-BOX™ Blue Light LED epi-illuminator, AC 100-240V, 50/60Hz