



## Protein Markers and Stain

Overview of Protein Markers and Ladders

Protein Marker and Ladder Information

ExcelBand™ All Blue Regular Range Protein Marker

ExcelBand™ All Blue Regular Range Plus Protein Marker

ExcelBand™ All Blue Broad Range Protein Marker

ExcelBand™ 3-color Regular Range Protein Marker

ExcelBand™ Enhanced 3-color Regular Range Protein Marker

ExcelBand™ 3-color High Range Protein Marker

ExcelBand™ Enhanced 3-color High Range Protein Marker

ExcelBand™ 3-color Broad Range Protein Marker

ExcelBand™ 3-color Extra Range Protein Marker

ExcelBand™ 3-color Pre-Stained Protein Ladder, Regular Range

ExcelBand™ 3-color Pre-Stained Protein Ladder, High Range

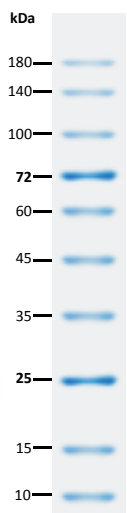
ExcelBand™ 3-color Pre-Stained Protein Ladder, Broad Range

YesBlot™ Western Marker I

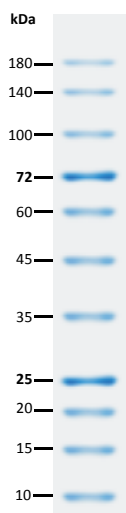
FluoroStain™ Protein Fluorescent Staining Dye (Red, 1000X)

## Overview of Protein Markers and Ladders

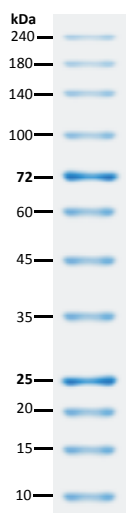
PM1500



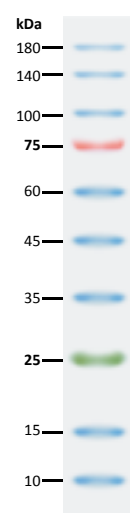
PM1600



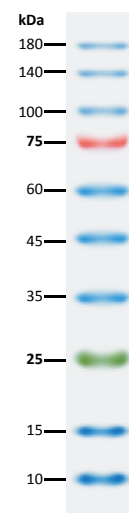
PM1700



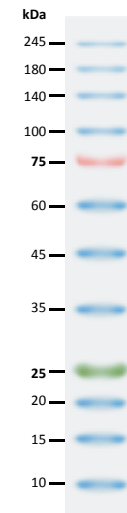
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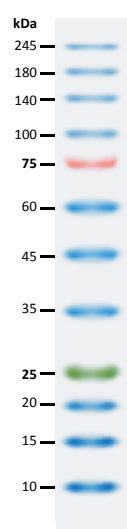
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PM2600



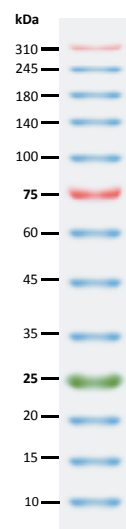
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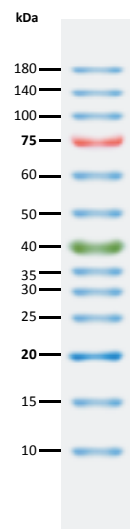
PM2700



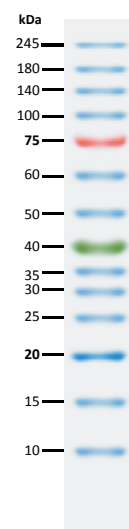
PM2800



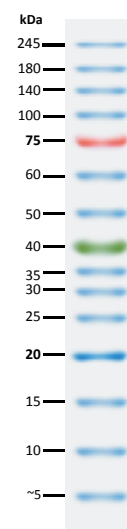
PM5000



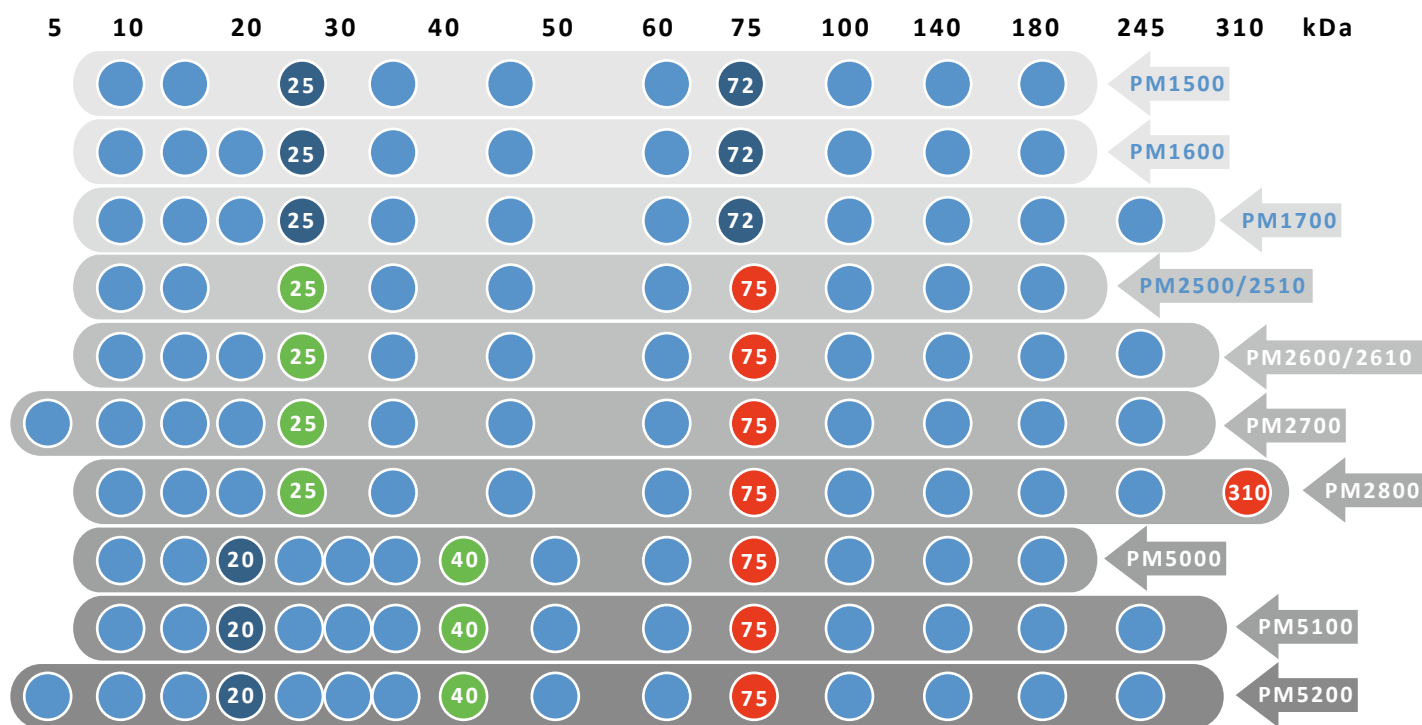
PM5100



PM5200



## Molecular Weight Range of Protein Markers and Ladders



## Protein Marker and Ladder Information

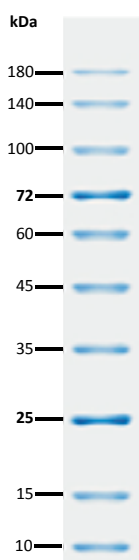
Series Name	Catalog Number	MW Range*	Band Number	Band Color	Enhanced (Markered) Bands
ExcelBand™	PM1500	10~180 kDa	10	B	25, 72 kDa
ExcelBand™	PM1600	10~180 kDa	11	B	25, 72 kDa
ExcelBand™	PM1700	10~240 kDa	12	B	25, 72 kDa
ExcelBand™	PM2500	10~180 kDa	10	R/G/B	25, 75 kDa
ExcelBand™	PM2510	10~180 kDa	10	R/G/B	25, 75 kDa
ExcelBand™	PM2600	10~245 kDa	12	R/G/B	25, 75 kDa
ExcelBand™	PM2610	10~245 kDa	12	R/G/B	25, 75 kDa
ExcelBand™	PM2700	5~245 kDa	13	R/G/B	25, 75 kDa
ExcelBand™	PM2800	10~310 kDa	13	R/G/B	25, 75, 310 kDa
ExcelBand™	PM5000	10~180 kDa	13	R/G/B	40, 75 kDa
ExcelBand™	PM5100	10~245 kDa	14	R/G/B	40, 75 kDa
ExcelBand™	PM5200	5~245 kDa	15	R/G/B	40, 75 kDa
YesBlot™	WM1000	15~200 kDa	10	R/G/B	30, 80 kDa

\*In Tris-Glycine buffer



## ExcelBand™ All Blue Regular Range Protein Marker (9-180 kDa)

PM1500 (250 µl × 2)



Tris-Glycine

### Description

The PM1500 ExcelBand™ All Blue Regular Range Protein Marker is a blue protein standard with 10 pre-stained proteins covering a wide range of molecular weights from 10 to 180 kDa in Tris-Glycine buffer (9 to 170 kDa in Bis-Tris (MOPS) buffer and Bis-Tris (MES) buffer). Proteins are covalently coupled with a blue chromophore, and two reference bands (at 25 kDa and 72 kDa, respectively) are enhanced in intensity when separated on SDS-PAGE (Tris-Glycine buffer).

The PM1500 ExcelBand™ All Blue Regular Range 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 approximating the size of proteins.

### Contents

Approximately 0.1~0.5 mg/ml of each protein in the buffer (20 mM Tris-phosphate (pH 7.5), 2% SDS, 0.2 mM DTT, 3.6 M Urea, and 15% (v/v) Glycerol).

### Quality Control

Under suggested conditions, the PM1500 ExcelBand™ All Blue Regular Range Protein Marker resolves 10 major bands in 15% SDS-PAGE (Tris-Glycine buffer) and after Western blotting to a nitrocellulose membrane.

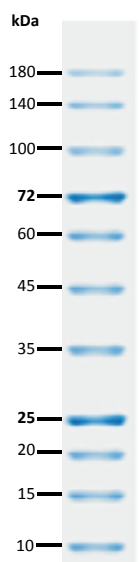
### Storage

4°C	for 3 months
-20°C	for 24 months



## ExcelBand™ All Blue Regular Range Plus Protein Marker (9-180 kDa)

PM1600 (250 µl × 2)



Tris-Glycine

### Description

The PM1600 ExcelBand™ All Blue Regular Range Plus Protein Marker is a blue protein standard with 11 pre-stained proteins covering a wide range of molecular weights from 10 to 180 kDa in Tris-Glycine buffer (9 to 170 kDa in Bis-Tris (MOPS) buffer and Bis-Tris (MES) buffer). Proteins are covalently coupled with a blue chromophore, and two reference bands (at 25 kDa and 72 kDa, respectively) are enhanced in intensity when separated on SDS-PAGE (Tris-Glycine buffer).

The PM1600 ExcelBand™ All Blue Regular Range Plus 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 approximating the size of proteins.

### Contents

Approximately 0.1~0.5 mg/ml of each protein in the buffer (20 mM Tris-phosphate (pH 7.5), 2% SDS, 0.2 mM DTT, 3.6 M Urea, and 15% (v/v) Glycerol).

### Quality Control

Under suggested conditions, the PM1600 ExcelBand™ All Blue Regular Range Plus Protein Marker resolves 11 major bands in 15% SDS-PAGE (Tris-Glycine buffer) and after Western blotting to a nitrocellulose membrane.

### Storage

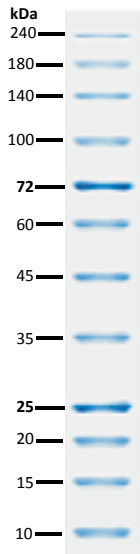
4°C	for 3 months
-20°C	for 24 months



# ExcelBand™ All Blue Broad Range Protein Marker (9-240 kDa)



## PM1700 (250 µl × 2)



Tris-Glycine

### Description

The PM1700 ExcelBand™ All Blue Broad Range Protein Marker is a blue protein standard with 12 pre-stained proteins covering a wide range of molecular weights from 10 to 240 kDa in Tris-Glycine buffer (9 to 235 kDa in Bis-Tris (MOPS) buffer and Bis-Tris (MES) buffer). Proteins are covalently coupled with a blue chromophore, and two reference bands (at 25 kDa and 72 kDa, respectively) are enhanced in intensity when separated on SDS-PAGE (Tris-Glycine buffer).

The PM1700 ExcelBand™ All Blue Broad Range 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 approximating the size of proteins.

### Contents

Approximately 0.1~0.5 mg/ml of each protein in the buffer (20 mM Tris-phosphate (pH 7.5), 2% SDS, 0.2 mM DTT, 3.6 M Urea, and 15% (v/v) Glycerol).

### Quality Control

Under suggested conditions, the PM1700 ExcelBand™ All Blue Broad Range Protein Marker resolves 12 major bands in 15% SDS-PAGE (Tris-Glycine buffer) and after Western blotting to a nitrocellulose membrane.

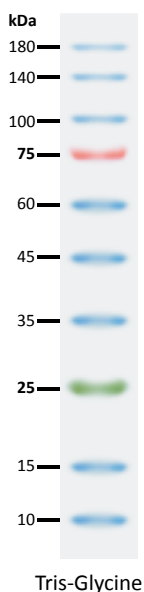
### Storage

4°C	for 3 months
-20°C	for 24 months



## ExcelBand™ 3-color Regular Range Protein Marker (9-180 kDa)

PM2500 (250 µl × 2)



### Description

The PM2500 ExcelBand™ 3-color Regular Range Protein Marker is a ready-to-use three-color protein standard with 10 pre-stained proteins covering a wide range of molecular weights from 10 to 180 kDa in Tris-Glycine Buffer (9 to 170 kDa in Bis-Tris (MOPS) buffer and 10 to 180 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 25 kDa and 75 kDa respectively) when separated on SDS-PAGE (Tris-Glycine buffer). PM2500 ExcelBand™ 3-color Regular Range 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 approximating the size of proteins.

### Contents

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

### Quality Control

Under suggested conditions, the PM2500 ExcelBand™ 3-color Regular Range Protein Marker resolves 10 major bands in 15% SDS-PAGE (Tris-Glycine buffer) and after Western blotting to a nitrocellulose membrane.

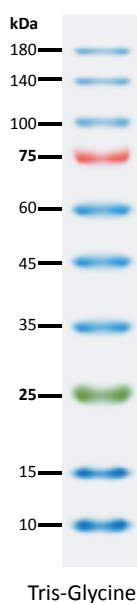
### Storage

4°C for 3 months  
-20°C for 24 months



## ExcelBand™ Enhanced 3-color Regular Range Protein Marker (9-180 kDa)

PM2510 (250 µl × 2) PM2511 (250 µl × 10)



### Description

PM2510/PM2511 ExcelBand™ Enhanced 3-color Regular Range Protein Marker is a ready to use three-color protein standard with 10 pre-stained proteins covering a wide range of molecular weights from 10 to 180 kDa (9 to 170 kDa in Bis-Tris (MOPS) buffer and 10 to 170 kDa in Bis-Tris (MES) buffer). Proteins are covalently coupled with a blue chromophore except for two reference bands (25 kDa and 75 kDa, respectively) when separated on SDS-PAGE (Tris-Glycine buffer). PM2510 ExcelBand™ Enhanced 3-color Regular Range 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 approximating the size of proteins.

### Contents

Approximately 0.2~0.6 mg/ml of each protein in the buffer (20 mM Tris-phosphate (pH 7.5), 2% SDS, 3.6 M Urea, and 15% (v/v) Glycerol).

### Quality Control

Under suggested conditions, the PM2510/PM2511 ExcelBand™ Enhanced 3-color Regular Range Protein Marker (9-180 kDa) resolves all 10 major bands on a 15% SDS-PAGE. All bands should be visible after being transferred to a nitrocellulose membrane.

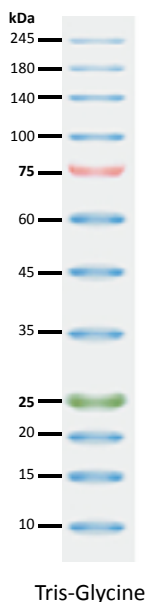
### Storage

4°C for 3 months  
-20°C for 24 months



## ExcelBand™ 3-color High Range Protein Marker (9-245 kDa)

PM2600 (250 µl × 2)



### Description

The PM2600 ExcelBand™ 3-color High Range Protein Marker is a ready-to-use three-color protein standard with 12 pre-stained proteins covering a wide range of molecular weights from 10 to 245 kDa in Tris-Glycine Buffer (9 to 235 kDa in Bis-Tris (MOPS) buffer and 10 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 25 kDa and 75 kDa respectively) when separated on SDS-PAGE (Tris-Glycine buffer). The PM2600 3-color High Range 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 approximating the size of proteins.

### Contents

Approximately 0.1~0.5 mg/ml of each protein in the buffer (20 mM Tris-phosphate (pH 7.5) 2% SDS, 0.2 mM DTT, 3.6 M Urea, and 15% (v/v) Glycerol).

### Quality Control

Under suggested conditions, the PM 2600 ExcelBand™ 3-color High Range Protein Marker resolves 12 major bands in 15% SDS-PAGE (Tris-Glycine buffer) and after Western blotting to a nitrocellulose membrane.

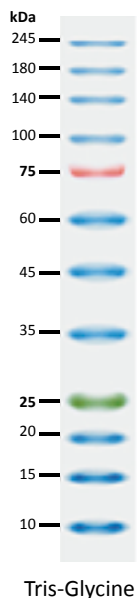
### Storage

4°C for 3 months  
-20°C for 24 months



## ExcelBand™ Enhanced 3-color High Range Protein Marker (9-245 kDa)

PM2610 (250 µl × 2) PM2611 (250 µl × 10)



### Description

The PM2610 ExcelBand™ Enhanced 3-color High Range Protein Marker is a ready-to-use three-color protein standard with 12 pre-stained proteins covering a wide range of molecular weights from 10 to 245 kDa in Tris-Glycine Buffer (9 to 235 kDa in Bis-Tris (MOPS) buffer and 10 to 235 kDa in Bis-Tris (MES) buffer). Proteins are covalently coupled with a blue chromophore except for two reference green and red bands (25 kDa and 75 kDa, respectively) when separated on SDS-PAGE (Tris-Glycine buffer). The ExcelBand™ Enhanced 3-color High Range 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 approximating the size of proteins.

### Contents

Approximately 0.2~0.6 mg/ml of each protein in the buffer (20 mM Tris-phosphate (pH 7.5), 2% SDS, 3.6 M Urea, and 15% (v/v) Glycerol).

### Quality Control

Under suggested conditions, the PM2610/PM2611 ExcelBand™ Enhanced 3-color High Range Protein Marker resolves 12 major bands in 15% SDS-PAGE (Tris-Glycine buffer) and after Western blotting to a nitrocellulose membrane.

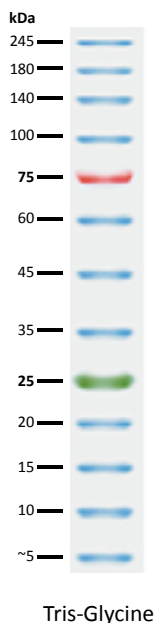
### Storage

4°C for 3 months  
-20°C for 24 months



## ExcelBand™ 3-color Broad Range Protein Marker (3.5-245 kDa)

PM2700 (250 µl × 2)



### Description

The PM2700 ExcelBand™ 3-color Broad Range 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 kDa to 235 kDa in Bis-Tris (MOPS) buffer and Bis-Tris (MES) buffer). Proteins are covalently coupled with a blue chromophore except for two reference bands (one green and one red band at 25 kDa and 75 kDa, respectively) when separated on SDS-PAGE (Tris-Glycine buffer). The PM2700 ExcelBand™ 3-color Broad Range 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 approximating the size of proteins.

### Contents

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

### Quality Control

Under suggested conditions, the PM 2700 ExcelBand™ 3-color Broad Range Protein Marker resolves 13 major bands in SDS-PAGE (Bis-Tris gel, MES buffer) and after Western blotting to a nitrocellulose membrane.

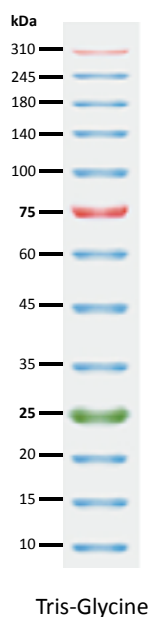
### Storage

4°C for 3 months  
-20°C for 24 months



## ExcelBand™ 3-color Extra Range Protein Marker (10-310 kDa)

PM2800 (250 µl × 2)



### Description

The PM2800 ExcelBand™ 3-color Extra Range Protein Marker is a ready-to-use three-color protein standard with 13 pre-stained proteins covering an extra range of molecular weights from 10 to 310 kDa in Tris-Glycine Buffer (9 to 290 kDa in Bis-Tris (MOPS) buffer and 10 to 290 kDa in Bis-Tris (MES) buffer). Proteins are covalently coupled with a blue chromophore except for three reference bands (one green and two red bands at 25 kDa and 75, 310 kDa respectively) when separated on SDS-PAGE (Tris-Glycine buffer). The PM2800 ExcelBand™ 3-color Extra Range 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 approximating the size of proteins.

### Contents

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

### Quality Control

Under suggested conditions, the PM 2800 ExcelBand™ 3-color Extra Range Protein Marker resolves 13 major bands in 15% SDS-PAGE (Tris-Glycine buffer) and after Western blotting to a nitrocellulose membrane.

### Storage

4°C for 3 months  
-20°C for 24 months





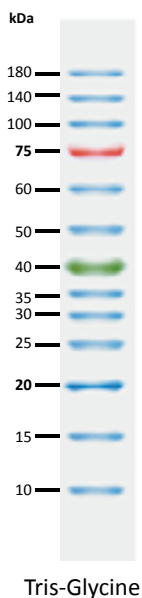
## ExcelBand™ 3-color Pre-Stained Protein Ladder, Regular Range (9-180 kDa)



PM5000 (250 µl × 2)

### Description

The PM5000 ExcelBand™ 3-color Pre-Stained Protein Ladder Regular Range is a ready-to-use three-color protein standard with 13 pre-stained proteins covering a wide range of molecular weights from 10 to 180 kDa in Tris-Glycine Buffer (9 to 170 kDa in Bis-Tris (MOPS) buffer and 10 to 170 kDa 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 PM5000 ExcelBand™ 3-color Pre-Stained Protein Ladder Regular Range is designed for monitoring protein separation during SDS-polyacrylamide gel electrophoresis, verification of Western transfer efficiency on membranes (nitrocellulose, PVDF, or nylon) and for approximating the size of proteins.



### Contents

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

### Quality Control

Under suggested conditions, the PM5000 ExcelBand™ 3-color Pre-Stained Protein Ladder Regular Range resolves 13 major bands in 15% SDS-PAGE (Tris-Glycine buffer) and after Western blotting to a nitrocellulose membrane.

### Storage

4°C for 3 months  
-20°C for 24 months

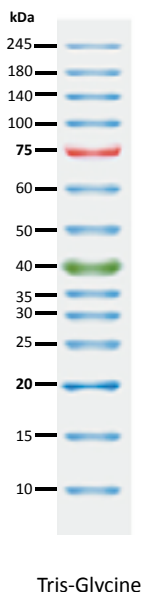
## ExcelBand™ 3-color Pre-Stained Protein Ladder, High Range (9-245 kDa)



PM5100 (250 µl × 2)

### Description

The PM5100 ExcelBand™ 3-color Pre-Stained Protein Ladder High Range is a ready-to-use three-color protein standard with 14 pre-stained proteins covering a wide range of molecular weights from 10 to 245 kDa in Tris-Glycine Buffer (9 to 235 kDa in Bis-Tris (MOPS) buffer and 10 to 235 kDa in 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 PM5100 3-color Pre-Stained Protein Ladder High Range is designed for monitoring protein separation during SDS-polyacrylamide gel electrophoresis, verification of Western transfer efficiency on membranes (nitrocellulose, PVDF, or nylon) and for approximating the size of proteins.



### Contents

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

### Quality Control

Under suggested conditions, the PM5100 ExcelBand™ 3-color Pre-Stained Protein Ladder High Range resolves 14 major bands in 15% SDS-PAGE (Tris-Glycine buffer) and after Western blotting to a nitrocellulose membrane.

### Storage

4°C for 3 months  
-20°C for 24 months



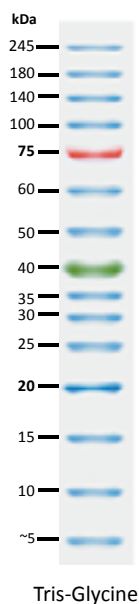
# ExcelBand™ 3-color Pre-Stained Protein Ladder, Broad Range (3.5-245 kDa)



PM5200 (250 µl × 2)

## Description

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



## Contents

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

## Quality Control

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

## Storage

4°C	for 3 months
-20°C	for 24 months



# YesBlot™ Western Marker I



WM1000 (250 µl)

## Description

The YesBlot™ Western Marker I is a ready-to-use mixture with ten IgG-binding proteins covering a wide range of molecular weights from 15 to 200 kDa in a Tris-Glycine buffer for chemiluminescent, fluorescent, chromogenic or other detection systems. In addition, the YesBlot™ Western Marker I has two reference bands with enhanced intensity (at 30 kDa and 80 kDa, respectively).

The YesBlot™ Western Marker I also has 4 pre-stained proteins (10, 25, 45 and 70 kDa) for monitoring protein separation during SDS-polyacrylamide gel electrophoresis, verification of Western transfer efficiency on membranes (nitrocellulose, PVDF, or nylon) and for approximating protein size.

## Contents

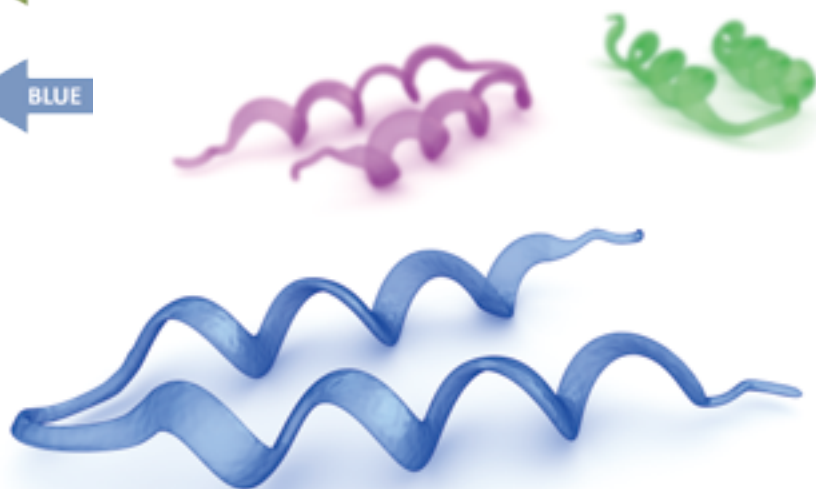
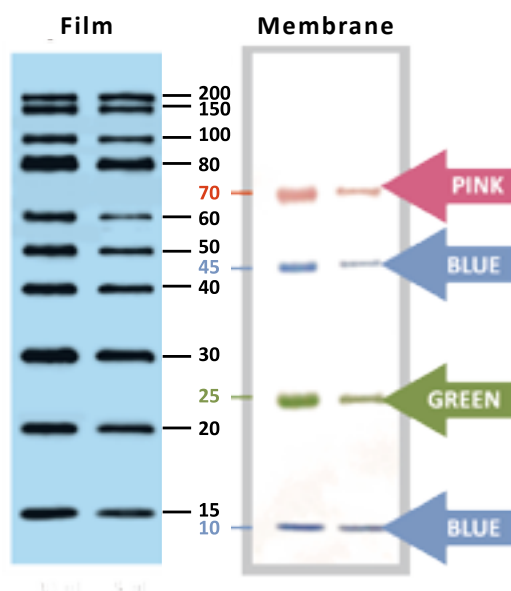
The YesBlot™ Western Marker I contains recombinant IgG binding proteins, Glycerol, and SDS.

## Quality Control

Under suggested conditions, the YesBlot™ Western Marker I resolves 4 pre-stained bands on the membrane and 10 bands after primary and secondary antibodies binding followed by chemiluminescent detection.

## Storage

4°C for 3 months  
-20°C for 24 months



## FluoroStain™ Protein Fluorescent Staining Dye (Red, 1000X)

PS1000 (1 ml) PS1001 (1 ml × 5)



### Description

The FluoroStain™ Protein Fluorescent Staining Dye (Red, 1000X) is designed to substitute the common Coomassie Blue protein staining method, offering greater sensitivity and ease of operation. Unlike Coomassie Blue stain, the FluoroStain™ Protein Fluorescent Staining Dye binds to protein with high specificity, making destaining process an option rather than a requirement. With further reduction of background signals via destaining process, the FluoroStain™ Protein Fluorescent Staining Dye is capable of achieving detection level parallel to silver stain without specialized imaging equipment (Fig. 1), making it one of the most sensitive dyes available. In addition to its remarkable sensitivity, the FluoroStain™ Protein Fluorescent Staining Dye brings a more reliable and safer user experience, since the stained gel can be visualized with blue-light illumination, users avoid the risk of skin/ eye damage caused by UV light. For best result, we suggest using the B-BOX™ Blue Light LED epi-illuminator to visualize and analyze the gel stained with FluoroStain™ Protein Fluorescent Staining Dye.

The FluoroStain™ Protein Fluorescent Staining Dye is compatible to the analysis of mass spectra, i.e. LC-MS/MS, MALDI-TOF, etc. (Fig. 2). The FluoroStain™ Protein Fluorescent Staining Dye is also for a less toxic (Fig. 4) and more environmentally-friendly procedure for protein staining, because it's designed to be used in a aqueous solution of ethanol and phosphoric acid for staining, avoiding the use of conventional methanol / acetic acid solution which is much more harmful and stimulating.

### Spectral Characteristics

When it is bound with bovine serum albumin (BSA), the fluorescent emission of FluoroStain™ Protein Fluorescent Staining Dye can be excited by UV and blue light sources, with excitation peaks around 369 and 517 nm and emission at 605 nm (Fig. 3). In absence of BSA, FluoroStain™ Protein Fluorescent Staining Dye shows ignorable fluorescence as compared with protein-bound form, therefore giving a clear background for photographic analysis. These spectral characteristics made this fluorescent dye compatible with a wide variety of gel reading facilities, including UV/ blue light epi- and transilluminator, argon laser and mercury-arc lamp excitation gel scanners.

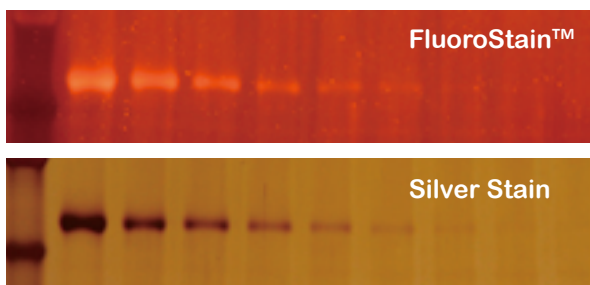


Fig. 1. Comparison of FluoroStain™ Protein Fluorescent Staining Dye with Silver stain of a 2X serially diluted BSA sample.

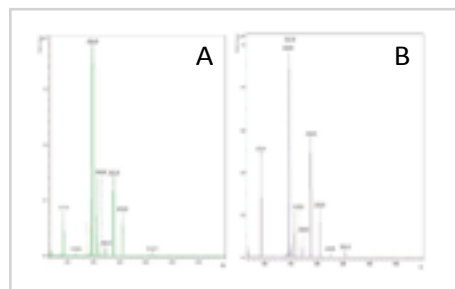


Fig. 2. Comparison of MALDI-TOF mass spectra of bovine serum albumin (BSA) stained with FluoroStain™ Protein Fluorescent Staining Dye (A) and with Coomassie Blue (B). BSA proteins are separated on an SDS-PAGE, stained with fluorescent dye or conventional Coomassie Blue, followed by trypsin digestion in gel, and then analyzed by MALDI-TOF.

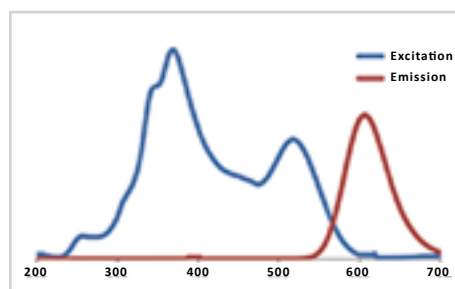


Fig. 3. Excitation and emission spectrum of FluoroStain™ Protein Fluorescent Staining Dye.

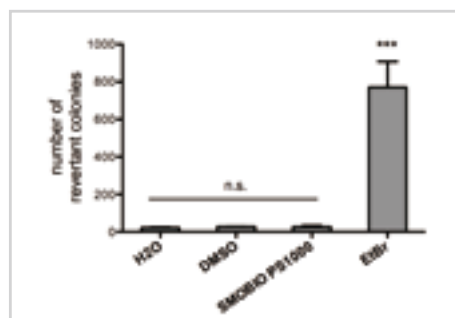


Fig. 4. FluoroStain™ Protein Fluorescent Staining Dye shows no mutagenic activity in the Ames test.

### Working Reagent Preparation

1:1000 dilution in 40% ethanol and 2% H<sub>3</sub>PO<sub>4</sub>

### Storage

Protected from light  
-20°C for 12 months

