



# INMUNOASSAYS

PROTEIN MARKERS AND STAIN

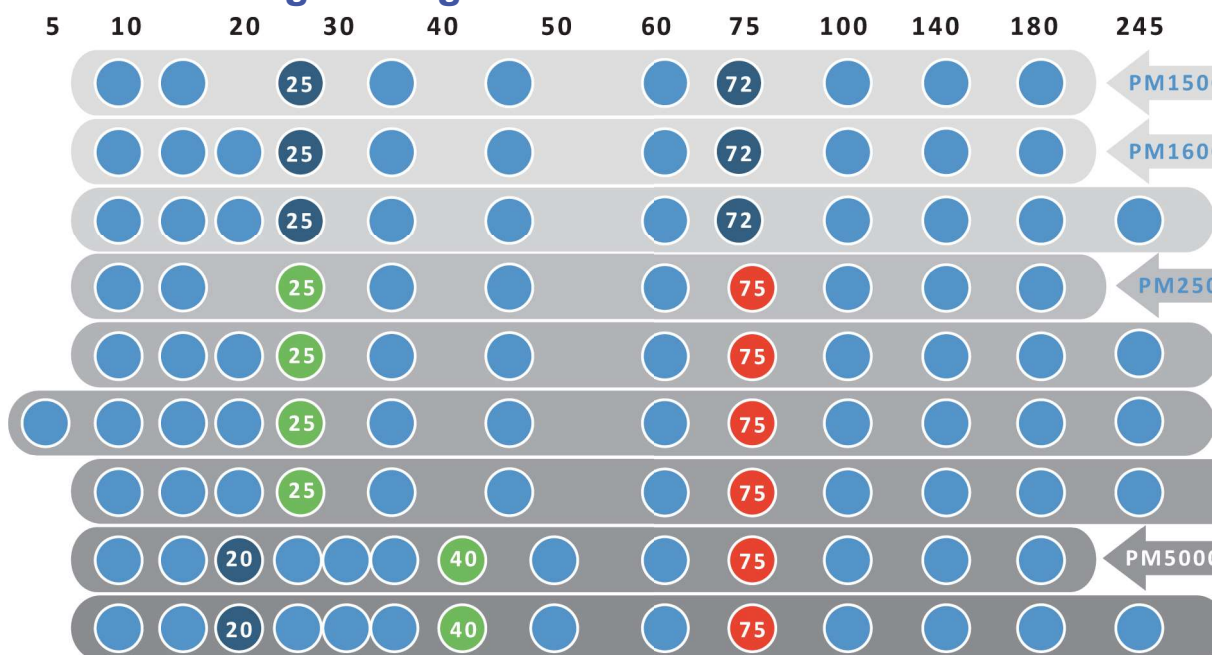
PreCAST GELS

TGN PreCast Gels

Bis-Tris PreCast Gels



## Molecular Weight Range of Protein Markers and Ladders



## Protein Marker and Ladder Information, Western Marker

Series Name	Cat Number	MW Range	Band Number	Band Color	Enhanced (Markered) Bands
ExcelBand™	TR-BS1-1045	10-180 kDa	10	B	25, 72 kDa
ExcelBand™	TR-BS1-1046	10-180 kDa	11	B	25, 72 kDa
ExcelBand™	TR-BS1-1047	10-240 kDa	12	B	25, 72 kDa
ExcelBand™	TR-BS1-1048	10-180 kDa	10	R/G/B	25, 75 kDa
ExcelBand™	TR-BS1-1049	10-180 kDa	10	R/G/B	25, 75 kDa
ExcelBand™	TR-BS1-1051	10-245 kDa	12	R/G/B	25, 75 kDa
ExcelBand™	TR-BS1-1052	10-245 kDa	12	R/G/B	25, 75 kDa
ExcelBand™	TR-BS1-1054	5-245 kDa	13	R/G/B	25, 75 kDa
ExcelBand™	TR-BS1-1055	10-310 kDa	13	R/G/B	25, 75, 310 kDa
ExcelBand™	TR-BS1-1056	10-180 kDa	13	R/G/B	40, 75 kDa
ExcelBand™	TR-BS1-1057	10-245 kDa	14	R/G/B	40, 75 kDa
ExcelBand™	TR-BS1-1058	5-245 kDa	15	R/G/B	40, 75 kDa
YesBlot™	TR-BS1-1059	15-200 kDa	10	R/G/B	30, 80 kDa

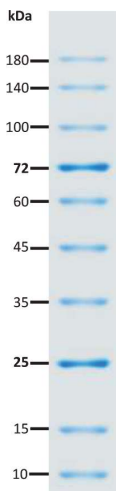
# TK Protein Markers & Stain

## ExcelBand™ All Blue Regular Range Protein Marker (9-180 kDa) TR-BS1-1045 (250 µl × 2)

### Description

The TR-BS1-1045 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 TR-BS1-1045 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.



Tris-Glycine

### 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 TR-BS1-1045 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

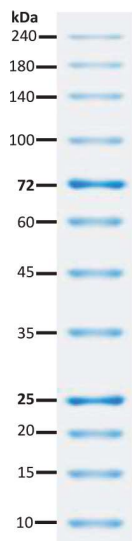
4°C for 3 months  
-20°C for 24 months

## ExcelBand™ All Blue Broad Range Protein Marker (9-240 kDa) TR-BS1-1047 (250 µl × 2)

### Description

The TR-BS1-1047 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 TR-BS1-1047 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.



Tris-Glycine

### 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 TR-BS1-1047 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.

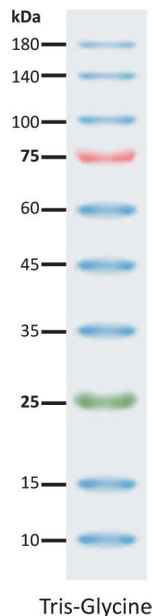
### Storage

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

## ExcelBand™ 3-color Regular Range Protein Marker (9-180 kDa) TR-BS1-1048 (250 µl × 2)

### Description

The TR-BS1-1048 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). TR-BS1-1048 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 TR-BS1-1048 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.

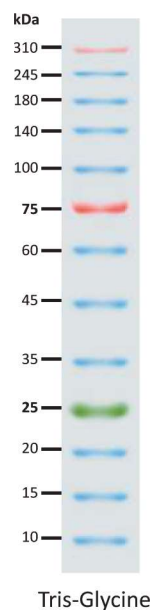
### Storage

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

## ExcelBand™ 3-color Extra Range Protein Marker (10-310 kDa) TR-BS1-1055 (250 µl × 2)

### Description

The TR-BS1-1055 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 TR-BS1-1055 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 TR-BS1-1055 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.

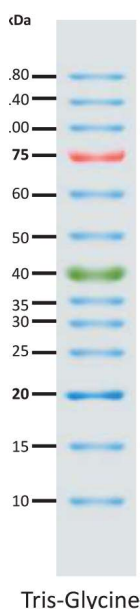
### Storage

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

## ExcelBand™ 3-color Pre-Stained Protein Ladder, Regular Range (9-180 kDa) TR-BS1-1056 (250 µl × 2)

### Description

The TR-BS1-1056 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 TR-BS1-1056 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 TR-BS1-1056 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.

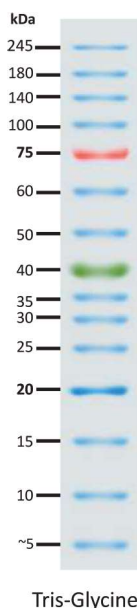
### Storage

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

## ExcelBand™ 3-color Pre-Stained Protein Ladder, Broad Range (3.5-245 kDa) TR-BS1-1058 (250 µl × 2)

### Description

The TR-BS1-1058 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 TR-BS1-1058 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 TR-BS1-1058 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 TR-BS1-1059 (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.

## FluoroStain™ Protein Fluorescent Staining Dye (Red, 1000X) TR-BS1-1060 (1 ml) TR-BS1-1061 (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, 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. The FluoroStain™ Protein Fluorescent Staining Dye is also for a less toxic 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.

Description	Cat. N°
FluoroStain™ Protein Fluorescent Staining Dye (Red, 1000X), 1 ml	TR-BS1-1060
FluoroStain™ Protein Fluorescent Staining Dye (Red, 1000X), 1 ml × 5	TR-BS1-1061

### Contents

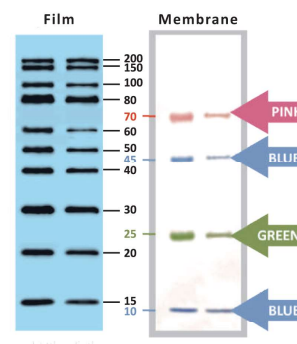
The YesBlot™ Western Marker I contains recombinant IgG binding proteins, Glycerol, SDS, and tracking dyes in a Tris-HCl buffer.

### Quality Control

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

### Storage

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



### Spectral Characteristics

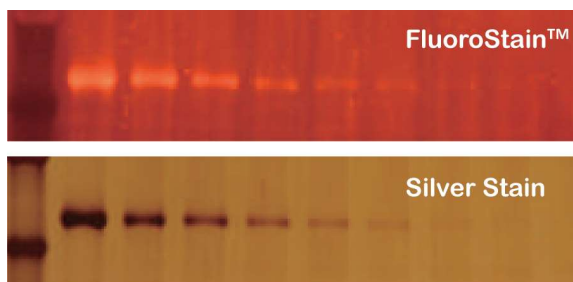
When it is bound with bovine serum albumin (BSA), the fluorescent emission of FluoroStain™ Protein Fluorescent Staining Dye can be excited by UV and blue light sources, with excitation peaks around 369 and 517 nm and emission at 605 nm. In absence of BSA, FluoroStain™ Protein Fluorescent Staining Dye 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.

### Working Reagent Preparation

1:1000 dilution in 40% ethanol and 2% H3PO4

### Storage

Protected from light  
-20°C for 12 months



## GoPAGE™ Precast Gel Quick & Clear

### Description

GoPAGE™ Precast Gels are a high-performance and easy-to-use precast polyacrylamide gel. GoPAGE™ Precast Gels are available in Mini (10 x 8.3 cm) and Midi (10 x 10 cm) cassette sizes, which are compatible with most popular electrophoresis systems, such as Bio-Rad®, Invitrogen Novex®, Hoefer SE260, and others. With unique formula, GoPAGE™ Precast Gels perform enhanced resolution, sharper bands, accurate results, and longer shelf life as compared with conventional Laemmli Tris-HCl gels.

GoPAGE™ Precast Gels are available in two buffer systems: GoPAGE™ Bis-Tris Precast Gels and GoPAGE™ TGN (Tris-Glycine Novel) Precast Gels.

## GoPAGE™ Bis-Tris Precast Gels

Bis-Tris Gels are used in either MOPS or MES buffer for electrophoresis. GoPAGE™ Bis-Tris Precast Gels are available in gradient (4 to 12%) and fixed (8% and 12%) concentrations of polyacrylamide.

## GoPAGE™ TGN Precast Gels

TGN Gels are used in Tris-Glycine buffer for electrophoresis.

GoPAGE™ TGN Precast Gels are available in gradient (4 to 15%) and fixed (10%) concentrations of polyacrylamide in 12-well formats. The protein migration patterns in GoPAGE™ TGN series are similar with typical Laemmli Tris-HCl gels, and thus GoPAGE™ TGN Precast Gels are compatible to traditional SDS-PAGE and subsequent analyses.

### Features

- User-friendly gel cassette:
  - Easy to use- No comb or tape to remove.
  - Easy to load samples- Numbered wells; extended and fixed well separator to prevent sample carryover.
  - Easy to monitor- Transparent reference lines on the gel cassette help to monitor electrophoresis.
- Unique gel formula:
  - Sharpness- Enhances band sharpness
  - Long shelf life- Up to 12 months when stored at 4°C
- Broad compatibility:
  - Wide separation range- Available as homogeneous and adjusted gradient gels for a wide range of protein separation.
  - Compatibility- Two cassette sizes suitable for most mini-gel tanks.

Product Name	Cat. Number	Cassette Size	Buffer System	Compatible Electrophoresis System
GoPAGE™ Bis -Tris Precast Gel, 12 wells, 8%	TR-BS1-1035	Mini (10 X 8.3 cm)	MOPS, MES	Bio-Rad® systems
GoPAGE™ Bis -Tris Precast Gel, 12 wells, 12%	TR-BS1-1036			
GoPAGE™ Bis -Tris Precast Gel, 12 wells, 4-12%	TR-BS1-1037			
GoPAGE™ Bis -Tris Precast Gel, 12 wells, 8%	TR-BS1-1038	Midi (10 X 10 cm)		Invitrogen Novex® systems, Hoefer SE260 systems
GoPAGE™ Bis -Tris Precast Gel, 12 wells, 12%	TR-BS1-1039			
GoPAGE™ Bis -Tris Precast Gel, 12 wells, 4-12%	TR-BS1-1040			
GoPAGE™ TGN Precast Gel, 12 wells, 10%	TR-BS1-1041	Mini (10 X 8.3 cm)	Tris-Glycine (Laemmli buffer)	Bio-Rad® systems
GoPAGE™ TGN Precast Gel, 12 wells, 4-15%	TR-BS1-1042	Midi (10 X 10 cm)		Invitrogen Novex® systems, Hoefer SE260 systems
GoPAGE™ TGN Precast Gel, 12 wells, 10%	TR-BS1-1043			
GoPAGE™ TGN Precast Gel, 12 wells, 4-15%	TR-BS1-1044			