

Product Information
**3-color High Range Protein Marker
(9-245 kDa)**
BYPL600

Size: 250 μ l \times 2
 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 BYPL600 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 10-235 kDa in 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 BYPL600 ExcelBand™ 3-color High Range 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, 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 BYPL600 ExcelBand™ 3-color High Range Protein Marker 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	45	41	42
8	Blue	35	30	30
9	Green	25	22	23
10	Blue	20	18	18
11	Blue	15	14	14
12	Blue	10	9	10

Quality Control

Under suggested conditions, BYPL600 ExcelBand™ 3-color High Range Protein Marker resolves 12 major bands in SDS-PAGE (Tris-Glycine, MOPS, and MES buffer) and after Western blotting transfer to a nitrocellulose membrane.

Other information

BYLABS 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 BYLABS 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.

**ExcelBand™
3-color High Range Protein Marker**
BYPL600


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.