

Product Information
**3-color Broad Range Protein Marker
(3.5-245 kDa)**
BYPL700

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 BYPL700 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 BYPL700 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.

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 BYPL700 ExcelBand™ 3-color Broad 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	
13	Blue	~5	~3.5	~3.5	

Quality Control

Under suggested conditions, BYPL700 ExcelBand™ 3-color Broad Range Protein Marker resolves 13 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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