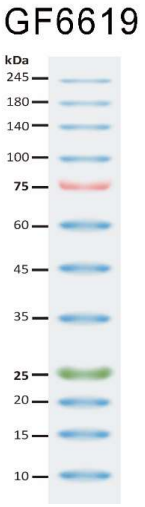
3-color High Range Protein Marker (9-245 kDa)



GF6619

Size: 250 µl x 1
5 µl per well for 50 applications

Storage

4°C for 3 months
-20°C for 36 months

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.

Loading Volume

- 3 µl or 5 µl per loading for clear visualization during electrophoresis on a 15-well or 10-well mini-gel.
- 1.5~2.5 µl per well for general Western blotting transfer.
- Apply more for a thicker (> 1.5 mm) or larger gel.

Description

The 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 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 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, 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

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