

ColorMixed Protein Marker 310

Catalog: RM02943

Size: 500 μ L: 250 μ L*2/ 2500 μ L: 250 μ L*10

◆ Description

The ColorMixed Protein Marker 310 is a ready to use three-color protein standard with 12 pre-stained proteins covering a wide range of molecular weights from 10 to 310 kDa (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 band at 25 kDa and two red bands at 75 kDa and 310 kDa respectively) when separated on SDS-PAGE (Tris-Glycine buffer). This 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.

◆ 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).

◆ Storage

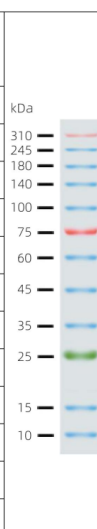
4°C for 3 months; -20°C for 2 years

◆ Notice

1. Ready to use: Do NOT heat, dilute, or add reducing agents before loading
2. Reference bands: 310 kDa (red), 75 kDa (red), 25 kDa (green)
3. Loading Volume: 3-5 μ L/well for mini gel; 8-10 μ L/ well for Western transfer; 6-10 μ L/ well for large gel
4. Type of membranes: PVDF, nylon, or nitrocellulose

◆ Guide for molecular weight estimation

Migration patterns and approximate MWs (kDa) of ColorMixed Protein Marker 310 in different electrophoresis conditions are listed below:

Band	Color	TRIS-GLYCINE/ kDa	BIS-TRIS(MOPS)/ kDa	BIS-TRIS(MES)/ kDa	
1	Red	310	290	290	
2	Blue	245	235	235	
3	Blue	180	170	170	
4	Blue	140	130	130	
5	Blue	100	93	93	
6	Red	75	70	72	
7	Blue	60	53	53	
8	Blue	45	41	42	
9	Blue	35	30	30	
10	Green	25	22	23	
11	Blue	15	14	14	
12	Blue	10	9	10	