

# ColorMixed Protein Marker 250

Catalog: RM02949

Size: 500 $\mu$ L: 250 $\mu$ L\*2/2500 $\mu$ L: 250 $\mu$ L\*10

## Description

The ColorMixed Protein Marker 250 is a ready to use two-color protein standard with 11 pre-stained proteins covering a wide range of molecular weights from 10 to 250 kDa (10 to 230 kDa in Bis-Tris (MOPS) buffer and 9.8 to 230 kDa in Bis-Tris (MES) buffer). Proteins are covalently coupled with a blue chromophore except for two reference bands (two red bands at 25 kDa and 70 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: 70 kDa (red), 25 kDa (red)
3. Loading Volume: 3-5  $\mu$ L/well for mini gel; 1.5-2.5  $\mu$ L/ well for Western transfer; 6-10  $\mu$ 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 250 in different electrophoresis conditions are listed below:

Band	Color	TRIS-GLYCINE/ kDa	BIS-TRIS(MOPS)/ kDa	BIS-TRIS(MES)/ kDa	
1	Blue	250	230	230	
2	Blue	150	140	140	kDa 250 —
3	Blue	100	98	98	150 —
4	Red	70	63	63	100 —
5	Blue	50	49	49	70 —
6	Blue	40	39	38	50 —
7	Blue	35	34	33	40 —
8	Red	25	22	22	35 —
9	Blue	20	20	21	25 —
10	Blue	15	15	14	20 —
11	Blue	10	10	9.8	15 —
					10 —

