

## **Three ColorMixed Protein Marker 180**

Cat#	Product Description	Packing	
TI-MB-19001S	Three color mixed protein Marker 180	250 μL x 2units	
TI-MB-19001L	Three color mixed protein Marker 180	250 μL x 10units	

### Description

The Three ColorMixed Protein Marker 180 is a ready to use three-color protein standard with 10 pre-stained proteins covering a wide range of molecular weights from 10 to 180 kDa (9 to 170 kDa in Bis-Tris (MOPS) buffer and 10 to 170 kDa in 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).

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: 75 kDa (red), 25 kDa (green)
- 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 180 in different electrophoresis conditions are listed below:

Band	Color	TRIS-GLYCINE /	BIS-TRIS (MOPS) /	BIS-TRIS (MES)/	2000.0
		kDa	kDa	kDa	kDa 180 —
1	Blue	180	170	170	140 —
2	Blue	140	130	130	100-
3	Blue	100	93	93	75—
4	Red	75	70	72	60 —
5	Blue	60	53	53	45—
6	Blue	45	41	42	35-
7	Blue	35	30	30	
8	Green	25	22	23	25—
9	Blue	15	14	14	15—
10	Blue	10	9	10	10 —