Gene to Protein Pvt. Ltd.
www.genetoprotein.com
info@genetoprotein.com
800 GENOME, 800 GENETIC

Broad Range MW Protein Marker (Prestained: Tri Colour) [11-180 kDa]

Cat # ☐ MWM-010, ☐ MWM-010S
Pack Size: ☐ 500 µL, ☐ 30µL
Range: ~11-~180 kDa
Number of Bands: 10
Storage: -20°C
Stable for up to 2 weeks at 25°C,
Stable for up to 3 months at 4°C,
for long term storage, store at -20°C.
Feature: Three-color, with a green dye at ~25 kDa, and a red dye at ~75 kDa.

Kit content:

S.No	Protein Marker	MWM-010	MWM-010-S
1	Broad Range MW Protein Marker Prestained	500 µL	30 µL

Introduction:

The Broad Range MW Protein Marker Prestained is a protein standard that includes 10 pre-stained proteins covering a wide range of molecular weights from ~10 to ~180 kilodaltons (kDa). The proteins in the ladder are covalently linked to a blue chromophore, except for two reference bands that appear as green and red bands at 25 kDa and 75 kDa, respectively, when separated using SDS-polyacrylamide gel electrophoresis (SDS-PAGE) with Tris-glycine-SDS running buffer. This ladder is designed for monitoring protein separation during SDS-PAGE, verifying Western transfer efficiency on membranes made of PVDF, nylon, or nitrocellulose, and for approximating the size of proteins. The ladder is supplied in a gel loading buffer and is ready to use. It should not be heated, diluted, or mixed with reducing agents before loading.

Features

Broad Range: The Broad Range MW Protein Marker Prestained includes 10 pre-stained proteins that cover a wide range of molecular weights from ~10 to ~180 kDa when separated on SDS-polyacrylamide gel electrophoresis (SDS-PAGE) with Tris-glycine-SDS running buffer.
Ready-to-use: The marker is supplied in a loading buffer, ready for direct loading on gels.
Easy to identify: The reference bands at ~25 and ~75 kDa are coupled with green and red dyes, respectively, making it easy to identify.
Sharp bands: The marker produces sharp and distinct bands for accurate protein sizing.

Applications:

- The Broad Range MW Protein Marker Prestained is suitable for the following applications:
- Monitoring protein migration during SDS-PAGE
- Monitoring protein transfer onto membranes during Western blots
- Sizing of proteins on SDS-PAGE gels and Western blots

Note: The marker is stored in a buffer containing approximately 0.2-0.4 mg/ml of each protein in 20 mM Trisphosphate pH 7.5 at 25°C, 2% SDS, 0.2 mM Dithiothreitol, 3.6 M Urea, and 15% (v/v) Glycerol.

Quality Control: The quality of the Broad Range MW Protein Marker Prestained is tested on a lot-to-lot basis to ensure consistent product quality.

continued

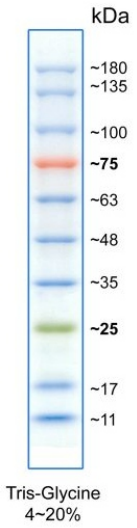
Protocol

1. Thaw the marker at room temperature or at 37- 40°C for a few minutes to dissolve precipitated solids. **Do not boil.**
2. Mix the marker thoroughly to ensure the solution is homogeneous.
3. Load the following volumes of the marker on SDS-PAGE gel:
4. 5 µl per well for mini-gels, 2.5 µl per well for blots
5. 10 µl per well for large gels, 5 µl per well for blots
6. Apply more for thicker (> 1.5 mm) or larger gels.

Note:

1. The estimated molecular weight of each protein has been determined by calibration against unstained protein standards.
2. Additional data should be consulted for precise adjustment under different electrophoresis conditions.
3. All products are intended for research use only.

Warning: Not suitable for human or animal diagnostic or therapeutic applications.



The migration patterns of the Broad Range MW Protein Marker Prestained in Tris-glycine