

## — PROTOCOL —

## BLUelf Prestained Protein Ladder

Catalog Number	Unit Size	Reactions
PM008-0500	500 ul	

- 3 ul or 5 ul per loading for clear visualization during electrophoresis on 15-well or 10-well mini-gel, respectively.
- 1.5~2.5 ul per well for general Western transferring.
- Apply more for thicker (> 1.5 mm) or larger gel.

**Storage** : 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.

### Description

The BLUelf Prestained Protein Ladder is a three-color protein standard with 13 pre-stained proteins covering a wide range molecular weights from 3.5 to 245 kDa. 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). The BLUelf Prestained Protein Ladder 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 ladder is supplied in gel loading buffer and is ready to use. Do not heat, dilute, add reducing agent 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).

### Quality Control

Under suggested conditions, BLUelf Prestained Protein Ladder resolves 13 major bands in polyacrylamide gel with appropriate buffers and after Western blotting to nitrocellulose membrane.

— PROTOCOL —

Guide for Molecular Weight Estimation (kDa)

Migration patterns of BLUelf Prestained Protein Ladder in different electrophoresis conditions are listed below:  
 Note: The apparent molecular weight (kDa) of each protein has been determined by calibration against unstained protein standards; supplemental data should be considered for more accurate adjustment in different electrophoresis conditions. All products are for research use only. Caution: Not intended for human or animal diagnostic or therapeutic uses.

