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# Prestained Protein Marker

Cat. #: C0115 Size: 2×250 µl

## Introduction

***Prestained Protein Marker*** is a prestained mixture of ten recombinant proteins, covering a wide range of molecular weights from 10 to 180 kDa (10, 17, 25, 33, 40, 53, 70, 95, 130, 180 kDa). Three different chromophores are bound to the proteins, producing a brightly colored ladder. It is designed for monitoring protein separated during polyacrylamide gel electrophoresis, verification of Western transfer efficiency on membranes and for sizing of proteins. The protein marker is supplied in protein gel loading buffer and is ready-to-use. No need to heat, dilute, or add reducing agent before loading.

## Package Information

| Components | C0115 |
|---|---|
| Prestained Protein Marker | 2×250 µl |

## Storage

Store at -20°C

**Storage Buffer**

67 mM Tris-$H_3PO_4$, pH 7.5, 5 mM EDTA, 2% SDS, 33% Glycerol, 0.02% proclin300

## Recommendations for Loading

1. Thaw the ladder at room temperature for a few minutes to dissolve precipitated solids. **Do not boil!**

2. Mix gently, but thoroughly, to ensure the solution is homogeneous.

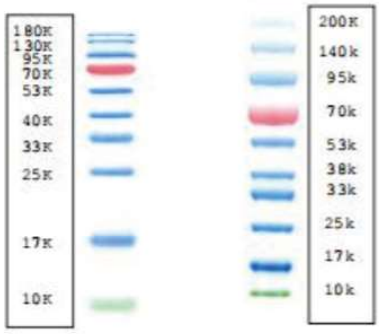
3. Load the following volumes of the ladder on an SDS-polyacrylamide gel:

– 5 µl per well for mini gel,
– 10 µl per well for large gel.

Use the same volumes for Western blotting. The loading volumes listed above are recommended for gels with a thickness of 0.75-1.0 mm. The loading volume should be doubled for 1.5 mm thick gels.

**Note**:

- Prestained proteins can have different mobilities in various SDS-PAGE-buffer systems. However, they are suitable for approximate molecular weight determination when calibrated against unstained standards in the same system.
- In low-percentage gels (<10%), the low-molecular weight proteins in the ladder may migrate with the dye front.
- Prestained Protein Marker can be used in Western blotting with all common membranes: PVDF, nylon and nitrocellulose.
- Longer transfer times or higher transfer voltages may be required for Western blotting of large (>100 kDa) proteins.




15% Trisglycine 4-20% BisTrisMops

The apparent molecular weight of each protein (kDa) has been determined by calibration against an unstained protein ladder in each electrophoresis condition.

*FOR RESEARCH USE ONLY*