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# DATA SHEET

Version: 1
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## 1. Identification

**Product name** **PriBLUE™ Prestained Protein Marker I (14–100 kDa)**

250 µL

**Cat. No** **PL0015**

## 2. Description

This **prestained molecular weight marker** contains **seven proteins**, ranging from **14 kDa to 100 kDa**, each covalently bonded to **specific dyes** to facilitate **electrophoresis monitoring and protein transfer validation**. The marker includes a **50 kDa band coupled to orange dye**, a **14 kDa band coupled to yellow dye**, and **five additional bands coupled to blue dye**, ensuring precise differentiation of molecular weights.

Designed for **accurate protein visualization**, this marker enhances **clarity during electrophoresis and Western blot applications**. Its **color-coded bands** improve **tracking efficiency**, making it an essential tool for protein analysis.

## 3. Specifications

**MW Range:** 14–100 kDa
**Format:** Ready-to-use, no heating required
**Storage Buffer:** 100 mM Tris-HCl (pH 6.8); 5 mM EDTA; 10 mM DTT; 10% Glycerol; 1% SDS and 0.01% Phenol red.

## 4. Applications

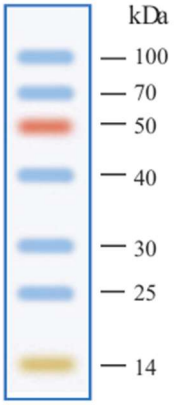
**Electrophoresis and Western blot protein visualization**

## 5. Usage Instructions

- **Thoroughly mix before use** to maintain **uniform protein distribution**.
- **Recommended loading volumes:**
  - **5 µL per well** for **mini gels**
  - **10 µL per well** for **larger gels**
- **Electrophoresis & Transfer Conditions:**
  - **Electrophoresis:** 200 V for **50 minutes**
  - **Membrane transfer:** 200 mA for **3 hours**

## 6. Additional information

| Band (kDa) | Color | Concentration |
|---|---|---|
| 14 | Prestained yellow | 2 µg/5 µL |
| 20 | Prestained blue | 0.5 µg/5 µL |
| 30 | Prestained blue | 0.5 µg/5 µL |
| 40 | Prestained blue | 0.5 µg/5 µL |
| 50 | Prestained orange | 1 µg/5 µL |
| 60 | Prestained blue | 0.5 µg/5 µL |
| 100 | Prestained blue | 0.5 µg/5 µL |




12% Tris-glycine SDS gel
(5 µl/well)

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## 7. Further information

**Product Use Limitation** This product is developed, designed and sold exclusively only for research purposes use. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

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