

Elite Pre-stained Protein Ladder

User Guide

The ELITE Pre-stained Protein Ladder is a three-colour protein standard with 10 pre-stained proteins covering a wide range of molecular weights from 6.5 to 270 kDa. Designed for monitoring protein separation during SDS-PAGE, verifying Western transfer efficiency on membranes and for approximating the size of proteins.

Storage Conditions:

25° for up to 2 weeks
4°C for up to 3 months
-20°C for long term storage

Avoid repeated freezing and thawing.

Do not apply heat or reducing agent.

The Elite Pre-stained Protein Ladder is provided ready for use.

For Research Use Only.

Storage Buffer:

62.5 mM Tris-H₃PO₄ (pH 7.5 at 25 °C), 1 mM EDTA, 2% SDS, 10 mM DTT, 1 mM NaN₃, 33% glycerol.

Quality Control:

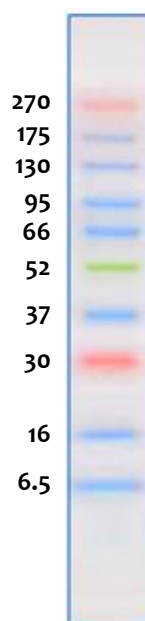
Under suggested conditions, Elite Pre-stained Protein Ladder resolves 10 major bands in 4-12% Bis-Tris Gel (MES buffer) and after Western blotting on Nitrocellulose membrane.

High-intensity, 3-colour MW determination:

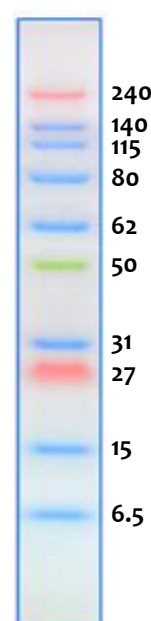
MW – Orange Green Orange	Buffer Conditions
270 kDa, 52 kDa, 30 kDa	Tris Glycine 4-20%
240 kDa, 50 kDa, 27 kDa	Bis-Tris 4-12% MES

- Ultra-clear and expanded MW range (6.5-270 kDa).
- Clear separation for high MW proteins
- Up to 100% electroblot transfer efficiency (Seema Qamar, CIMR, Cambridge University, 2018)

Tris-Glycine
4-20%



Bis-Tris 4-12%
MES buffer



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Standard Protocol

Protocol:

1. Thaw standard at room temperature
2. Vortex to ensure a homogenous solution
3. Load the standard on the gel (Refer to recommended volumes below for clear visualisation)

Gel Type	Application	
	Electrophoresis	Western Transfer
15-well mini-gel	3 µl per loading	2.5 µl per well
10-well mini-gel	5 µl per loading	2.5 µl per well

Elite Pre-stained Protein Ladder vs. Novex Sharp Pre-stained Protein Standard (ThermoFisher)

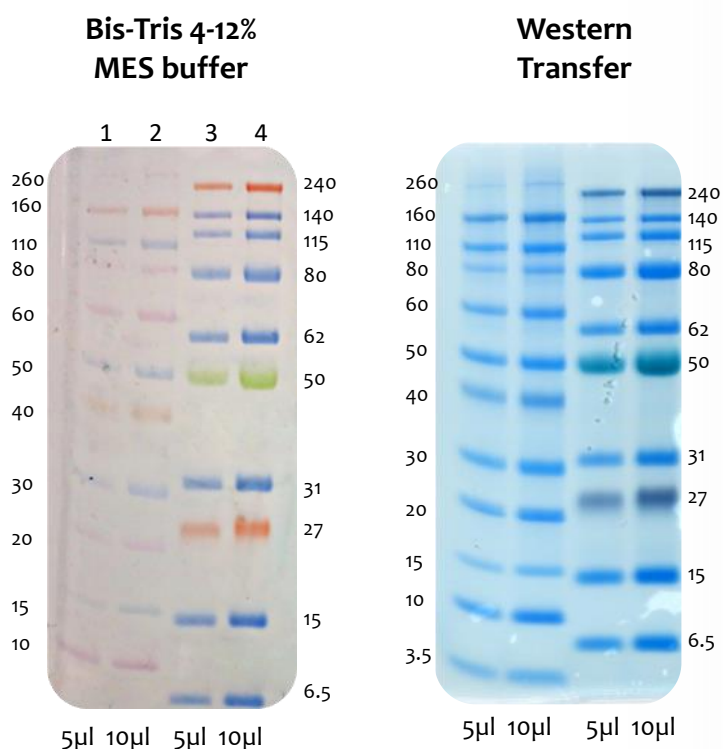
Protocol:

Gel buffer: 4-12% Bis-Tris, MES

Western transfer: Stained with Coomassie

- Lane 1: Novex Sharp 5µl
- Lane 2: Novex Sharp 10µl
- Lane 3: Elite Protein Ladder 5µl
- Lane 4: Elite Protein Ladder 10µl

*Qamar S, Cambridge Institute for Medical Research, Cambridge, UK, October 2018.



Ordering Information

Name	Pack Size	Product Code
0.5 ml Elite Pre-stained Protein Ladder	2 x 0.25ml	PAL-EPL-500
2.5 ml Elite Pre-stained Protein Ladder	10 x 0.25ml	PAL-EPL-2500