eEnzyme

Accelerating Scientific Discovery

Elite™ Tri-color Protein Ladder

Catalog Number: PM-T101

DESCRIPTION

The Elite™ Tri-color Protein Ladder is a three-color protein standard comprising a mixture of 12 pre-stained proteins (blue, red, and green) covering a molecular-weight range of 11–245 kDa. The individual band sizes are: 11, 17, 20, 25, 35, 48, 63, 75, 100, 135, 180, and 245 kDa.

It is designed for:

- Monitoring protein separation during SDS-polyacrylamide gel electrophoresis (SDS-PAGE)
- Verification of Western transfer efficiency onto membranes (PVDF, nylon, or nitrocellulose)
- Approximating the molecular weight of proteins

The ladder contains one **red reference band at 75 kDa** and one **green reference band at 25 kDa**, enabling quick visual orientation on gels and blots. All remaining bands are blue.

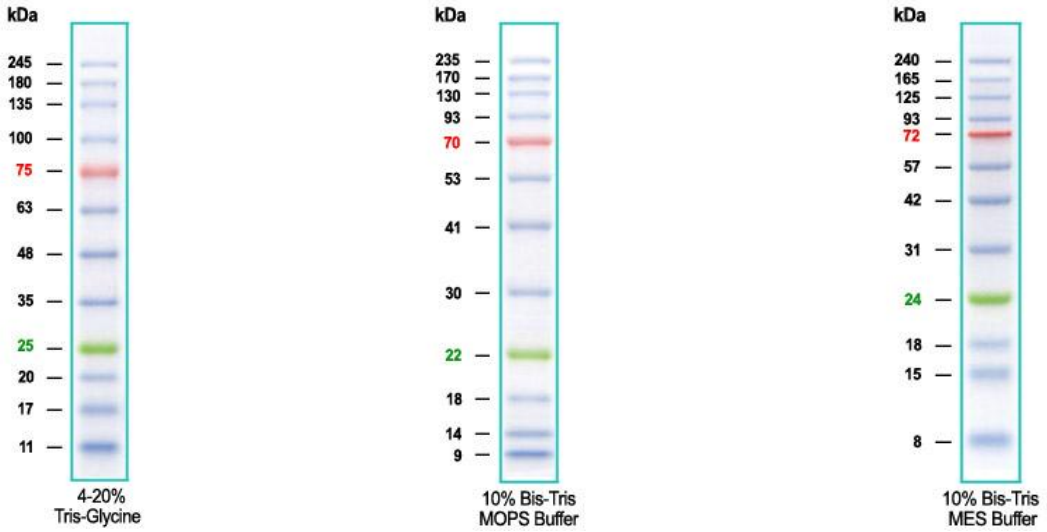
The ladder is supplied in a reducing gel-loading buffer and is ready to use — no heating or reduction step is required.

CONTENTS

Volume: 0.5 mL

Composition: Dye-stained proteins in 20 mM Tris-H_3PO_4 (pH 7.5 at 25 °C), 2% SDS, 1 mM β-mercaptoethanol, 3.6 M urea, and 15% (v/v) glycerol.

BAND REFERENCE IMAGES



LOADING GUIDE

Gel Format	Recommended Loading Volume
17- or 15-well mini-PAGE gels	2–3 µL per lane
12- or 10-well mini-PAGE gels	4–5 µL per lane
General Western blot transfer	1.5–2.5 µL per lane

Note: *For thicker gels (>1.5 mm) or larger-format gels, increase loading volume proportionally.*

APPLICATIONS

- Monitoring protein migration during SDS-PAGE
- Monitoring protein transfer onto membranes after Western blotting
- Sizing of proteins on SDS-polyacrylamide gels and Western blots

STORAGE AND STABILITY

- Store at −20 °C for long-term storage.
- Stable for up to 3 months at 4 °C.
- Stable for up to 2 weeks at room temperature.
- Avoid repeated freeze–thaw cycles.

USAGE NOTES

- The ladder is ready to use directly from the tube — do not heat or add reducing agent.
- Briefly vortex or invert the tube before use to ensure homogeneity.
- Apparent molecular weights may vary slightly depending on gel percentage and running conditions.
- For best results, allow the ladder to equilibrate to room temperature before loading.

FOR RESEARCH USE ONLY

This product is intended for research use only. Not for use in diagnostic or therapeutic procedures.

eEnzyme LLC, 401 Professional Drive, Suite 160, Gaithersburg, MD 20879, USA

Tel: 1-240-683-5851 | Fax: 1-240-683-5852

Email: info@eEnzyme.com | Web: www.eEnzyme.com

Please consider the environment before printing.