Instructions for use

ROTI®Mark BI-PINK

Bicolor protein molecular weight marker for SDS-PAGE

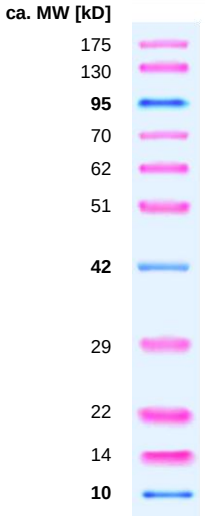

Figure:
ROTI®Mark BI-PINK in Tris-Glycine gel 15 %, unstained. Resolution and distinctness of bands may vary depending on the gel and buffer system used.

I. Introduction

ROTI®Mark BI-PINK is composed of eight native proteins which are covalently coupled with a red dye. In order to optimise orientation in the gel as well as control of running and transfer behaviour, three proteins prestained in blue and with an apparent MW of approx. 10, 42 and 95 kD were added.
ROTI®Mark BI-PINK needs not be stained in gel and is, therefore, ideal for checking transfer efficiency during Western-Blot and the gel run during electrophoresis.

The concentration of the individual proteins is set in such a way that homogeneous band intensity and optimal band sharpness can be obtained in unstained gel.

The proteins are denatured in reducing Laemmli buffer with 200 mg/ml (3.6 M) urea.

The molecular weights of the proteins change as a result of being coupled with the dye and vary according to the coupling efficiency. Additionally, the behaviour of the prestained proteins in the gel differs slightly depending on the actual gel and buffer system used. Therefore, the indicated molecular weight values are only approximate. The effective molecular weights may deviate from the values indicated.

Please note:
ROTI®Mark BI-PINK, therefore, is not suitable for size determination of proteins in the gel.

II. Storage

- **The marker should not be stored for a longer period at temperatures above freezing point!**
- **The marker will not be shipped cooled or with dry ice. This does not affect usability.**
- Please store ROTI®Mark BI-PINK at -20 °C. The marker can be stored at 4 °C for a short period (a few days). To avoid frequent freezing and thawing, aliquots should be frozen.
- Please heat ROTI®Mark BI-PINK for 30-60 seconds at 70 °C before use. Aggregate bodies may form when used for a longer period or when stored at 4 °C. These can be dissolved if heated for a short period (5 min, 80 °C).

III. Gel loading

- Recommended loading amount for mini gels (12 %; 0.75 mm thick): 5-10 µl
  Silver-staining: approx. 1 µl

  Bands visible in volumes as low as 3 µl per lane.
- **Important:** Loading amount required varies depending on gel thickness, C/T ratio, the staining used and width of comb tooth.

IV. Trouble Shooting

Marker bands cannot/can only be seen very weakly.

- Please ensure the correct loading amount. The recommended quantity is valid for mini gels with a thickness of 0.75 mm. If thicker or larger gels are used, the loading amount must be increased.
- Few weak marker bands: Under certain conditions marker proteins may agglutinate. Resolubilise marker aliquots by incubating for 5 min at 80 °C (alt. 1 min at 95 °C). Mix carefully.

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Marker bands are fuzzy.

- Avoid overloading the gel!
- Please ensure that the marker is not stored at room temperature for a longer period. Place the marker on ice between two gel runs.
- Avoid frequent freezing/thawing of marker.
- Long-term storage should always take place at -20 °C.
- Please take care that the gel contains no air bubbles when casting.
- When casting the gel, please ensure that the gel solution is mixed thoroughly.
- Only use high quality acrylamide solutions, e.g. ROTIPHORESE® Gel 30 (Art. No. 3029) or Gel 40 (Art. No. 3030).
- Avoid overheating the gel. Reduce voltage if required.
- Check the composition and pH-value of the buffer used.

ROTI®Mark BI-PINK
8269.1 **500 µl**