

NZYColour Protein Marker I

Catalogue number:

MB21501, 125 lanes MB21502, 4 x 125 lanes

Description

NZYColour Protein Marker I is a ready-touse mixture of 13 highly purified prestained proteins, covering a wide range of molecular weights from 5 to 245 kDa, designed to monitor protein separation during sodium dodecyl sulphatepolyacrylamide gel electrophoresis (SDS-PAGE). Proteins are covalently coupled with a blue chromophore except for two reference bands (one green and one red band at 25 kDa and 75 kDa respectively). The NZYColour Protein Marker L is visible during the electrophoresis run. NZYColour Protein Marker I is recommended for verification of Western transfer efficiency on membranes (PVDF, nvlon. or nitrocellulose) and protein molecular weight determination.

Storage conditions

NZYColour Protein Marker I should be stored at -20 °C. It is stable for up to three months at 4° C.

Components

Protein mixture supplied in gel loading buffer. Proteins are covalently coupled with a chromophore, generating blue bands, except the 25 and 75 kDa proteins, which generate green and red bands, respectively.

Gel loading

Load directly $3-5 \ \mu$ L per lane. Before use, mix well. Do not heat, dilute or add reducing agents before loading.

Electrophoresis and Detection

Perform electrophoresis according to the instructions supplied with the gel apparatus being used. Stain the gel using BlueSafe (MB15201).

Molecular weight determination

Measure the migration distance of the proteins in the NZYColour Protein Marker I and of the protein(s) of interest. Measure the migration distance of the dye marker. Calculate the corresponding Rf values by dividing migration distance of the protein by migration distance of the dye marker. Construct a calibration curve by graphing Rf vs. log molecular weight for the proteins in the NZYColour Protein Marker I. Determine the molecular weight of the protein(s) of interest from the calibration curve.

Quality control assay

Purity

5 μ L of NZYColour Protein Marker I is electrophoresed in a 10% Tris-glycine SDS-PAGE to check the intensity and the pattern of the bands. It is expected to observe 13 regularly spaced bands, as presented in Figure 1.

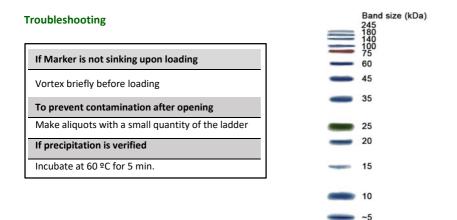


Figure 1. NZYColour Protein Marker I was loaded on a 10% Tris-glycine SDS-PAGE. Protein size, in kDa, is shown.

V1902

Certificate of Analysis		
Assay	Result	
Purity	Pass	
Approved by:		
Patrícia Ponte Senior Manager, Quality Systems		



Estrada do Paço do Lumiar, Campus do Lumiar - Edifício E, R/C, 1649-038 Lisboa, Portugal Tel.: +351.213643514 Fax: +351.217151168 www.nzytech.com