

NZYColour Protein Marker II

Catalogue number:

MB09002, 125 lanes MB09003, 4 x 125 lanes

Description

NZYColour Protein Marker II is a ready-touse mixture of 12 highly purified prestained proteins, covering a wide range of molecular weights from 11 to 245 kDa, designed to monitor protein separation during sodium dodecvl 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 II is visible during the electrophoresis run. NZYColour Protein Marker II is recommended for verification of Western transfer efficiency on membranes (PVDF, nvlon. or nitrocellulose) and protein molecular weight determination.

Storage conditions

NZYColour Protein Marker II 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 μ 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 II 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 II. 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 II is electrophoresed in a 10% Tris-glycine SDS-PAGE to check the intensity and the pattern

of the bands. It is expected to observe 12 regularly spaced bands, as presented in Figure 1.

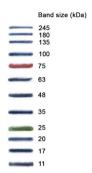


Figure 1. NZYColour Protein Marker II was loaded on a 10% Tris-glycine SDS-PAGE. Size, in kDa, of proteins in each lane is shown.

Troubleshooting

If Marker is not sinking upon loading

Vortex briefly before loading

To prevent contamination after opening

Make aliquots with a small quantity of the ladder

If precipitation is verified

Incubate at 60 °C for 5 min.

V1902

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

For research use only.



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