

NZYBlue Protein Marker

Catalogue number:

MB17601, 125 lanes MB17602, 4 x 125 lanes

Description

NZYBlue Protein Marker is a ready-to-use mixture of 11 highly purified pre-stained proteins, covering a wide range of molecular weights from 10 to 180 kDa, designed to monitor protein separation during sodium dodecvl sulphatepolyacrylamide gel electrophoresis (SDS-PAGE). Proteins are covalently coupled with a blue chromophore, and two reference bands (at 25 kDa and 72 kDa respectively) are enhanced in intensity when separated on SDS-PAGE (Tris-glycine buffer). The NZYBlue Protein Marker is visible during the electrophoresis run. NZYBlue Protein Marker is recommended for verification of Western transfer efficiency on membranes (PVDF, nylon, or nitrocellulose) and protein molecular weight determination.

Storage conditions

NZYBlue Protein Marker 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 blue chromophore, and two reference bands (25 kDa and 72 kDa) are enhanced in intensity when separated on SDS-PAGE.

Gel loading

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

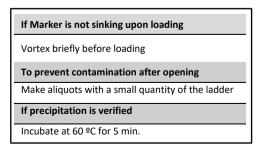
Electrophoresis and Detection

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 NZYBlue Protein Marker 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 NZYBlue Protein Marker. Determine the molecular weight of the protein(s) of interest from the calibration curve.

Troubleshooting



Quality control assay

Purity

5 μ L of NZYBlue Protein Marker is electrophoresed in a 10% Tris-glycine SDS-PAGE to check the intensity and the pattern of the bands. It is expected to observe 11 regularly spaced bands, as presented in Figure 1.

	180 135 100 72 60
_	45
_	35
_	25
	20
	15
	10

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

V1901

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



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Band size (kDa)