

## Smart Multi Color Pre-Stained Protein Standard (Cat. No. M00443)

**Size:** 250 $\mu$ l

**Concentration:**

Each protein is present at the concentration of 2 $\mu$ g/5 $\mu$ l. 5  $\mu$ l per lane is recommended to load on mini gel.

**Description:**

GenScript's Smart Multi Color Pre-Stained Protein Standard is used to estimate the protein molecular weight of protein samples on SDS-PAGE gel and evaluate the western transfer efficiency. It consists of six pre-stained proteins in the range of 14 to 100 kDa. The proteins of 40 kDa and 100 kDa are covalently coupled with orange dye to ensure proper identification of each protein. The protein of 14 kDa is covalently coupled with bright yellow dye for easy orientation. The proteins of 24kDa, 30kDa, and 62 kDa are covalently coupled with blue dye for easy visualization.

Smart Multi Color Pre-Stained Protein Standard is supplied in gel loading buffer and can be applied directly to a SDS-PAGE gel.

**Storage:**

The standard can be stored at -20°C for 12 months.

It is recommended to aliquot the standard into small volume.

**Storage buffer**

100 mM Tris-HCl (pH 6.8), 5 mM EDTA, 10 mM DTT, 10% glycerol, 1% SDS, 0.01% phenol red.

**Note:**

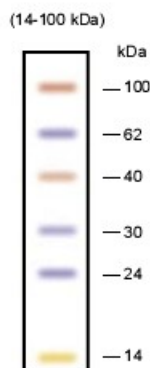
It is not necessary to boil the standard before use.

Mix the standard well before use.

Coupling of the dye to proteins affects the apparent molecular weight of proteins in SDS-PAGE related to unstained standards. For precise molecular weight determination, it is suggested to use unstained protein standards.

**Example**

5  $\mu$ l of Smart Multi Color Pre-Stained Protein Standard is electrophoresized on 12% SDS-PAGE gel with 200 V run 50 min, then transferred onto PVDF membrane with 200 mA transfer 3 h, the result is shown below:



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**ORDERING INFORMATION**

Smart Multi Color Pre-Stained Protein Standard (250ul): M00443

**For Research Use Only.**

**GenScript USA Inc.**

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