PRODUCT INFORMATION

Wide Range Protein Molecular Weight Marker

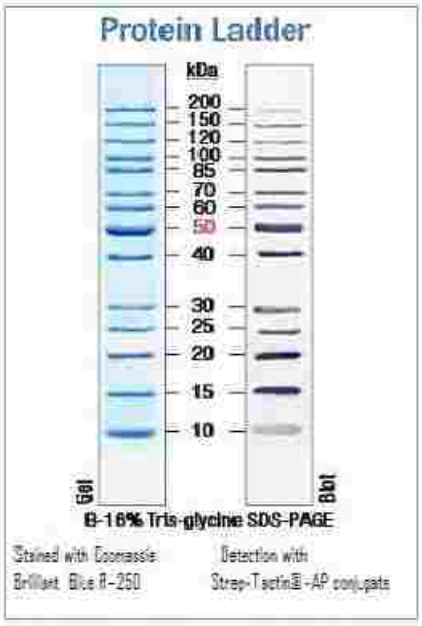
Product information for BSM0661:

Description

BBI Wide Range Protein Molecular Weight Unstained Marker is designed for accurate sizing of proteins in SDS-polyacrylamide gel electrophoresis, as well as on PVDF, nylon and nitrocellulose membranes.

BBI Wide Range Protein Molecular Weight Unstained Marker is a mixture of 14 recombinant, highly purified, unstained proteins ranging in size from 10 kDa to 200 kDa. Each protein in the ladder contains an integral Strep-tag® II sequence which can be detected directly on Western blots using a Strep-Tactin®-AP***** conjugate or an antibody against Strep-tag® II.

Ladder produces sharp bands on SDS-polyacrylamide gel following staining of the gel with Coomassie Brilliant Blue R-250, Silver Staining Kit or by other protein staining methods. Coomassie Blue R-250 can also be used to visualize unstained ladders and markers on PVDF membranes.



Applications

Accurate protein sizing on SDS-polyacrylamide gels and Western blots.

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Content

0.02-0.05 mg/ml of each protein in 62.5 mM Tris-H_3PO_4 (pH 7.5 at 25°C), 1 mM EDTA, 2% SDS, 100 mM DTT, 1 mM NaN_3, 0.01% bromophenol blue and 33% glycerol.

Recommendations for Loading

1. Thaw the ladder at room temperature for a few minutes to dissolve precipitated solids. **Do not boil!**
2. Mix gently, but thoroughly, to ensure that the solution is homogeneous.
3. Load the following volumes of the ladder on a SDS-polyacrylamide gel:
   -5 µl per well for mini gel
   -10 µl per well for large gel

Use the same volumes for Western blotting. The loading volumes listed above are recommended for gels with a thickness of 0.75-1.0 mm. The loading volume should be doubled for 1.5 mm thick gels.

Note

To avoid overloading gels which will be subsequently silver stained, dilute the ladder in protein loading buffer just prior to use.

Water, nuclease-free	35.5 µl
4× Protein Loading Buffer	12.5 µl
20×Reducing Agent	1 µl
Protein ladder	1 µl

Load 5 µl of the diluted ladder per well for a mini gel/blot and 10 µl per well for a large gel/blot.

Important Notes

1. Linear gradient gels allow for adequate resolution of both small and large proteins. Homogeneous low percentage gels are recommended for analysis of large proteins and high percentage gels for analysis of small proteins. In high percentage gels (14-18%) large proteins (150-200 kDa) may not separate, while in low percentage gels (4-8%) small proteins (15 and 10 kDa) will migrate with the tracking dye.
2. Longer transfer times or higher transfer voltages may be required for Western blotting of large (>100 kDa) proteins.
3. Additional bands observed in the gel image of the protein ladder might be caused by DTT oxidation in the storage buffer. Add freshly prepared DTT solution to a final concentration of 100 mM.

Storage

Store at -20°C.

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