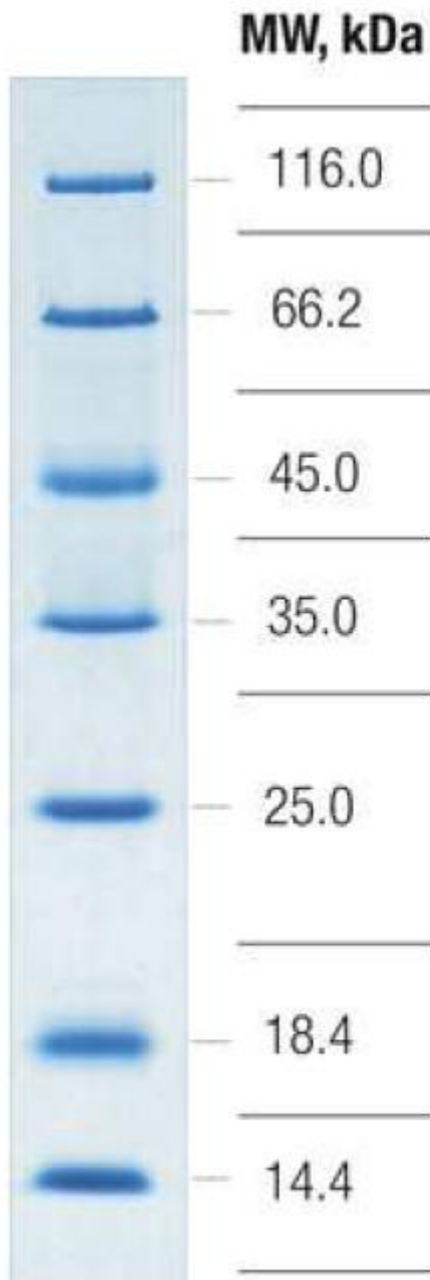


Protein Marker US7

Description/Preparation:

The Protein Marker US7 is a mixture of 7 purified proteins which are re-dissolved 'ready-to-use' in loading buffer. The proteins resolve into 7 sharp bands in the range of 14.4 kDa to 116.0 kDa when analysed by SDS-PAGE and stained with optimized dye.



12% Tris-glycine SDS-PAGE

Usage:

Mini gel application: 5 – 10 µl/well

Standard gel application: 10 – 20 µl/well

Storage Buffer/Tracking Dye:

62.5 mM Tris-HCl (pH 7.0, 25 °C), 1 mM EDTA, 2 % SDS, 50 mM DTT, 30 mM NaCl, 1 mM NaN₃, 0.01 % bromophenol blue and 50 % glycerol

Concentration:

0.1 - 0.2 mg/ml each protein

Number of bands: 7 14.4, 18.4, 25.0, 35.0, 45.0, 66.2, 116.0 kDa

Loading:

Loading Denaturing Polyacrylamide gels (SDS-PAGE):

- Thaw marker at room temperature or heat at 37 – 40 °C for a few minutes.
- Vortex gently.
- Take the required amount of marker from the stock solution and transfer to a clean tube.
- Heat this aliquot to 95 °C for 5 minutes for complete denaturation of the proteins. Cooled and mixed solution is ready for loading on an SDS-PAGE.
- Store denatured marker at – 20 °C. For further loading only thaw again at room temperature or heat at 37 – 40 °C. Vortex gently and apply to the gel.
- 2 ml marker are sufficient for 400 mini gels or 200 standard gels.

It is recommended to divide the marker into aliquots to avoid contamination of the stock solution.

Recommended loading volumes

Mini Gel: 5 µl/0.75 mm; 10 µl/1,5 mm

Standard Gel: 10 µl/0.75 mm; 20 µl/1.5 mm

Note:

Protein Marker US7 is optimized for runs on 12 % SDS polyacrylamide gels. 8 to 10 % gels may cause proteins with low molecular weights to migrate with the dye front. On 12 to 15 % and gradient gels all bands are visible. The marker is optimized for use with Coomassie Brilliant Blue R-250, but can also be used with other gel staining methods (e.g. silver staining etc.). As this method is 10 to 100 times more sensitive than Coomassie Blue staining the amount of

marker applied should be decreased accordingly.

Protein Marker US7 contains 2 % SDS and is therefore not recommended to be used in native polyacrylamide gels for determining native molecular weights of proteins.

Storage: at -20 °C

Shipment: on blue ice

Ordering information:

Cat.-no	Description	Amount
310001	Protein Marker US7 (14.4 - 116 kDa) *	2 x 1 ml
310002	Protein Marker US7 (14.4 - 116 kDa)	5 x 1 ml

* up to 400 mini gels or 200 standard gels