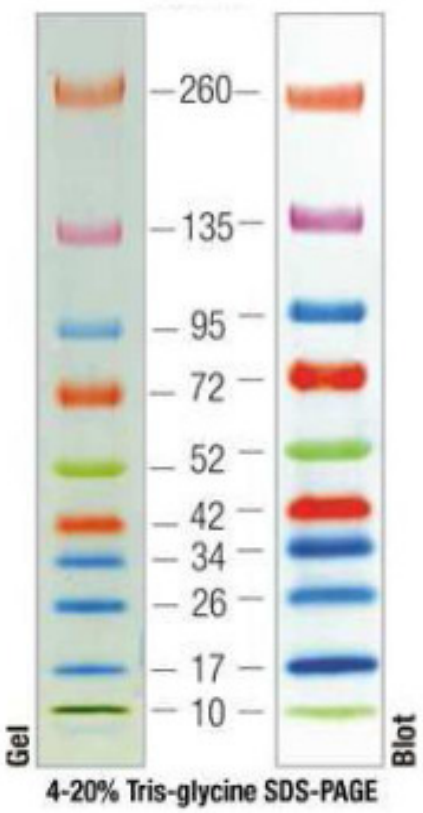
Protein Marker XXL DeLuxe

Description/Preparation:
Protein Marker XXL DeLuxe is a mixture of 10 coloured proteins. These proteins are recombinantly produced in E.coli, highly purified and supplied 'ready to use' in loading buffer. The protein concentrations are optimised to yield well-defined bands directly visible in SDS-polyacrylamide gels. **The marker is ready-to-use. There is no need to boil.**



Applications
- Monitoring of protein migration during SDS-polyacrylamide gel electrophoresis.
- Monitoring of protein transfer onto membranes during Western blotting.
- Sizing of proteins on SDS-polyacrylamide gels and Western blots.

Usage:
Mini gel application: 5 µl/well; 2.5 µl per well blots
Standard gel application: 10 µl/well; 5 µl per well for blots

Loading buffer: 62.5 mM Tris-H3PO4 (pH 7.5, 25 °C), 1 mM EDTA, 2 % SDS, 10 mM DTT, 1 mM NaN3, 33% glycerol

Number of bands: 10 260, 135, 95, 72, 52, 42, 34, 26, 17 and 10 kDa

Loading: Denaturing Polyacrylamide gels (SDS-PAGE)
- Thaw marker at room temperature or heat at 37 – 40 °C for a few minutes. Do not boil!
- Vortex gently and apply marker directly to the gel. Start the gel run.

Volume:
0.75 mm mini gel/western blot: 5 µl
0.75 mm standard gel/western blot: 10 µl

After gel electrophoresis the proteins can be stained by Coomassie staining or detected in Western blots.

Note: Four of the 10 proteins with an apparent molecular weight of approximately 95, 34, 26 and 17 kDa are coupled with a blue chromophore whereas three proteins at 260, 72 and 42 kDa appear orange. Additionally two proteins at 52 and 10 kDa are labelled green and one 135 kDa protein is coupled with a pink dye. All proteins resolve into clearly defined, sharp bands when analysed by SDS-PAGE. The protein marker can be used for approximate size estimation of unknown proteins, however for precise determination of molecular weights the use of 'unstained' protein markers is recommended. The prestained marker is well suited for monitoring the progression of the gel run and the Western transfer efficiency.

Protein Marker XXL DeLuxe is optimized for runs on 4 - 20 % SDS polyacrylamide gels. 8 to 10 % gels may cause proteins with low molecular weights to migrate with the dye front. Covalently coupled chromophores affect protein mobility. The prestained marker protein marker should be used only for approximate molecular weight determination. Each batch of prestained protein marker is calibrated against unstained standards; apparent molecular weight is shown in the graph. Protein Marker XXL DeLuxe contains 2 % SDS and is therefore not recommended to be used in native polyacrylamide gels for determing native molecular weights of proteins.

Quality Control
Tested in SDS-polyacrylamide gel electrophoresis and Western blotting.

Storage: at -20°C

Shipment: on blue ice

Ordering information:

Cat.-no	Description	Amount
310005	Protein Marker XXL DeLuxe (10 - 260 kDa)	2 x 250 µl
310006	Protein Marker XXL DeLuxe (10 - 260 kDa)	10 x 250 µl