Protein Marker III (6.5 – 200)

Protein size marker for gel electrophoresis
Product No. A4402

Description

The bands of 2.5 µl marker may be easily visualized with Coomassie in a polyacrylamid gel. This is a *ready-to-use* marker containing acylated proteins. The product may contain residual iodoacetamide. Apply 1 - 5 µl of this marker on a mini-gel (10 x 10 cm, 1 - 0.75 mm thickness, 7 mm slot). In case you wish to dilute this marker, use 1x Laemmli buffer.

Number of bands: 8

Protein sizes (kd): 6.5, 14, 20, 29, 45, 66, 118, 212 kDa

Quantity: 1.0 ml

Assay conditions: 5 µl / 4 - 20 % SDS-PAGE gradient gel; Coomassie staining

Storage: -20°C, if stored longer than 1 month. Please note that several times freezing and thawing will reduce the product quality. It is recommended to prepare small aliquots.

Stability: If stored at -20°C, protein markers are stable for several years (approx. 4 years). Repeated freeze/ thaw cycles will reduce the product quality. Therefore we recommend to:

1.) Upon arrival or after the first thawing, mix well the complete volume.

2.) Prepare small aliquots of 5 - 10 µl (for single use).

3.) Store aliquots frozen at -20°C

Application: The marker has to be pre-warmed to room temperature to guarantee that all components are dissolved. Before use, mix the thawed protein marker with loading buffer and heat to 50°C for 5 - 10 minutes. This will minimize the aggregation of myosin or lysozyme. Normally, heating to 95°C is not required. Do not heat aliquots several times, since heating promotes aggregation. Once a protein marker has been heated, it is recommended not to freeze it again. Instead, store it at +4°C and use it up shortly.

The transfer of proteins during blotting depends on their size. Lysozyme is fully transferred after 30 minutes, while myosin requires 2.5 hours (1 V/cm²).

kDa	Protein
212	Myosin
116	ß-Galactosidase
66	Bovine serum albumin
45	Ovalbumin
29	Carbonic anhydrase
20	Trypsin inhibitor (soy bean)
14	Lysozyme
6.5	Aprotinin (bovine lung)

4-20% Tris-Glycine

The apparent molecular masses of **Protein Marker III** may vary depending on acrylamide concentrations and buffer conditions.