

EUROMEDEX

CERTIFICATE OF ANALYSIS

Prestained Protein Molecular Weight Marker

Ready-to-use

#06P-0311 **2x 250 µl**

(for 100 mini-gel applications 5µl per well or
50 large gel applications 10µl per well)

Lot Exp. date:

Store at -20°C

In total 2 vials.

Description

Prestained Protein Molecular Weight Marker is a mixture of purified proteins covalently coupled to a blue chromophore. It consists of 6 proteins ranging in apparent molecular weight from approximately 20kDa to 120kDa. The protein concentrations are optimized to yield 6 well-defined blue bands after SDS-polyacrylamide gel electrophoresis (1).

The Marker is supplied in gel loading buffer and is ready-to-use (reconstituted).

Contents

Approximately 0.2mg/ml of each protein listed below.

Storage Buffer

62.5mM Tris-H₃PO₄ (pH 7.5 at 25°C), 1mM EDTA, 2% SDS, 10mM DTT, 1.5mM NaN₃ and 33% glycerol.

Application

Prestained Protein Molecular weight Marker is suitable for visualizing proteins during electrophoresis without staining and for monitoring electrophoretic transfer onto membranes.

Instruction for Use

1. Thaw the Marker at room temperature or heat at 37-40°C for a few minutes to dissolve precipitated solids. **Do not boil the protein marker!**

2. Vortex gently to ensure the solution is homogeneous.

3. Load the Marker on an SDS-PAGE gel and run.

Load Volume

0.75mm – thick mini gels – 5µl

1.5mm – thick mini gels – 10µl

0.75mm – thick standard gels – 10µl

1.5mm – thick standard gels – 20µl

Note

The Marker should not be used in a native polyacrylamide gel electrophoresis for determining native molecular weights of proteins.

Quality control

5µl of Marker run on 12% SDS-PAAG (mini-gel) provide 6 bands of equal color intensities.

Prestained Protein Molecular Weight Marker

Lot Specific

	Protein	Source
–118	β-galactosidase	<i>E.coli</i>
–90	Bovine serum albumin	bovine plasma
–50	Ovalbumin	chicken egg white
–34	Carbonic anhydrase	bovine erythrocytes
–26	β-lactoglobulin	bovine milk
–19	Lysozyme	chicken egg white

12% Tris-glycine SDS-PAGE

* Covalently coupled chromophore affects protein mobility. Prestained protein marker should be used only for approximate molecular weight (MW) determination. Each batch of prestained protein marker is calibrated against unstained standards; apparent molecular weights are reported in the above table.

References

1. Laemmli, U.K., Nature, 227, 680-685, 1970.

Product Use Limitation.

This product is developed, designed and sold exclusively for research purposes and in vitro use only. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

EUROMEDEX

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