Specifications

Contents Approximately 625 ug total protein*

in 33% (v/v) glycerol, 3% SDS, 10 mM Tris pH 7.0, 10 mM DTT, 2

mM EDTA, 0.01% NaN₃.

Storage -20 °C

Shelf life 1 year at -20 °C

Volume 500 μl **Applications** 25-100

per vial

* Total protein concentration is an approximation based on the average concentrations of multiple lots. Actual concentrations will vary.

Coomassie is a trademark of ICI.

Bio-Rad's prestained standards are available in high, low, and broad molecular weight ranges. Blue dye has been covalently attached to the standard proteins and will not be dissociated by normal staining or destaining. The protein mixtures are provided in a stable aqueous solution. No reconstitution or further dilution is required before use

Applications

Prestained SDS-PAGE Standards provide a quick and easy way to assess the quality of an electrophoretic transfer and act as a control in repetitive blotting experiments. The visibility of the standards makes it possible to monitor the separation of proteins while electrophoresis is in progress, even after the dye front has run off the gel. The standards can also be used to locate a protein for excision from an unstained preparative gel.

Ordering Information

Catalog

Number Product Description

Prestained Standards

161-0309	Prestained SDS-PAGE Standards, high range, 500 µl	
161-0318	Prestained SDS-PAGE Standards, broad range, 500 µ	
161-0324	Kaleidoscope Prestained Standards, 500 µl	
161-0325	Kaleidoscope Polypeptide Standards, 500 µl	
161-0372	Precision Prestained Standards (10 kD - 250 kD) 500 i	

161-0304 SDS-PAGE Standards, low range, 200 µl

161-0305 Prestained SDS-PAGE Standards, low range, 500 ul

Molecular Weight Standards

161-0303	SDS-PAGE Standards, high range, 200 µl
161-0317	SDS-PAGE Standards, broad range, 200 µl
161-0314	Silver Stain SDS-PAGE Standards, low range, 200 µl
161-0315	Silver Stain SDS-PAGE Standards, high range, 200 µl
161-0306	Biotinylated SDS-PAGE Standards, low range, 250 µl
161-0311	Biotinylated SDS-PAGE Standards, high range, 250 μ l
161-0319	Biotinylated SDS-PAGE Standards, broad range, 250 μ l
161-0326	Polypeptide SDS-PAGE Standards, 200 µl

Precision Unstained Standards, (10 kD - 250 kD), 1,500 µl

4006026 Rev D

Bio-Rad Laboratories

2000 Alfred Nobel Dr., Hercules, CA 94547 510-741-1000

Prestained SDS-PAGE Standards, Broad Range

Catalog # 161-0318

Product shipped at room temperature Store at -20 °C upon arrival



Protein Molecular Weights

The molecular weights of every lot of prestained standards are individually calibrated against Bio-Rad's SDS-PAGE Standards. The lot specific calibrated molecular weights are included with every vial. Prestained standards are useful for estimating the molecular weights of sample proteins, however, for precise molecular weight determination, use Bio-Rad's SDS-PAGE, Silver Stain SDS-PAGE, or Biotinylated SDS-PAGE Standards in addition to the prestained standards.

Constituent Proteins

(See enclosed insert for lot specific calibrated molecular weights.)[†]

Protein	Source
Myosin	Rabbit skeletal muscle
B-galactosidase	E. coli
Bovine serum albumin	Bovine plasma
Ovalbumin	Chicken egg white
Carbonic anhydrase	Bovine erythrocytes
Soybean trypsin inhibitor	Soybean
Lysozyme	Chicken egg white
Aprotinin	Bovine pancreas

† Covalently bound dye alters the molecular weight of the proteins and produces relatively broad bands. The molecular weights are calibrated from the center of each protein band.

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Instructions for Use

Heat the solution to 40 °C for 1 minute to dissolve any solids which may have precipitated at -20 °C. To visualize the prestained standards after blotting, load 10 μ l for full size gels (16-20 cm) and 5 μ l for mini gels. To visualize the standards during electrophoresis, load 20 μ l for full length gels and 10 μ l for mini gels. To see the standards during the run, it is helpful to hold a sheet of white paper behind the gel.

Note:

The prestaining of the proteins substantially inhibits them from being further stained with biotin/avidin systems, colloidal gold, Coomassie® R-250 dye, or amido black. The standards can be silver stained, but silver staining will result in broad bands because of the large amount of protein in the sample.

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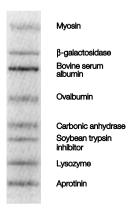


Fig. 1. A wide molecular weight range is covered by the broad range prestained standards. 5 μl of the standards were run on a 4-20% Ready Gel according to the method of Laemmli.¹ The standards were then electrophoretically transferred to nitrocellulose using the Mini-Trans-Blot[®] Cell.

Reference

1 Laemmli, U. K., Nature, 227, 680 (1970).