

★ Storage

Store at 2-8°C for up to 3 months.
-20°C for long term storage

★ Contents

- Product Manual
- Xpert Prestained Protein Marker, composed of 0.1-0.2 mg/ml of each protein in 62.5mM Tris-H₃PO₄ (pH 7.5 at 25°C) 1mM EDTA, 2% SDS, 10mM DTT, 1mM NaN₃ and 33% glycerol.

ALL PRODUCTS SOLD BY GenDEPOT ARE INTENDED FOR RESEARCH USE ONLY UNLESS OTHERWISE INDICATED. THIS PRODUCT IS NOT INTENDED FOR DIAGNOSTIC OR DRUG PURPOSE

★ Shipping Condition

Ship with ice pack.

★ Introduction

The Xpert Prestained Protein Marker consists of a marker with 11 clearly identifiable bands at convenient molecular weights. The protein sizes are approximately 6, 17, 28, 35, 43, 56, 70, 95, 130, 170 and 250kDa. This product has three reference bands. The 70kDa, and 28 kDa which is recently improved reference bands are red and 6 kDa reference band is green. This marker is designed for monitoring protein separation during SDS-PAGE (sodium dodecyl sulfate-polyacrylamide gel electrophoresis), verification of western transfer efficiency and approximate sizing of proteins.

★ Recommendations

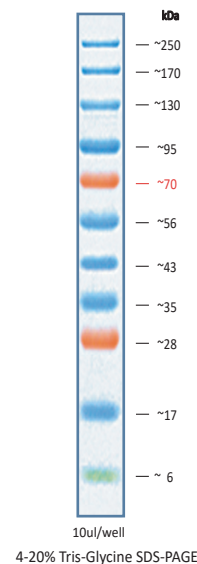
- **Do not boil before you load.**
- Load the following volumes of the ladder on SDS-PAGE gel :
Note: 10ul per well for mini-gels, 6ul per well for blots.
Note: 20ul per well for large gels, 12ul per well for blots.
- The indicated loading volume is recommended for gels with a thickness of 0.75mm. For thicker gels, the loading volume should be increased.

★ Quality Control

Tested in SDS-PAGE and Western blotting

★ Note

- Each lot of the Xpert Prestained Protein Marker is calibrated against a precisely sized, unstained Protein Marker and calculated apparent molecular weights are reported in the picture.
- For precise molecular weight determinations use Protein Marker, unstained, Broad Range (Cat No.#P8501-020).



The Xpert Prestained Protein Marker should only be used to determine an **approximate size molecular weight** and the **size is lot specific**.

* When a protein marker is covalently bound to a charge-carrying dye molecule, this can affect the protein's overall charge. Altering the protein's charge will most likely change its mobility within the gel. This explains why the prestained protein markers are given "apparent" molecular weight values, while regular unstained protein markers are given their true molecular weight. The apparent molecular weights state on the insert sheet and other references of our prestained protein markers were determined using 4-20% Tris-Glycine gels. It has been observed that when run on different gel types (Tris-tricine, Bis-Tris, etc), the apparent molecular weight seems "incorrect". The reason for this disparity is the different formulations of the gel types (buffering agents, ionic strength and pH).

★ Related Product

Product Name	Cat No
Albumin	A0100
Xpert Protease Inhibitor Cocktail Solution (100X)	P3100
Xpert Phosphatase Inhibitor Cocktail Solution (100X)	P3200
West-Q Pico Dura ECL Solution	W3653
West-Q Femto ECL Solution	W3680