Blue Protein Marker (Prestained)

Cat No: PM-M-002-500
Size: 500µl
Concentration: ~200 µg/ µl
Storage: Store at 4^{O}C
For longer use, store at – 20^{O}C
(Ready to use)

MOLEQULE-ON®

Description

The MOLEQULE-ON Blue Protein Marker is a three-colour standard with 12 pre-stained proteins, covering a wide range of molecular weights from 10 to 245 kDa. Proteins are covalently coupled with a blue chromophore except for two reference bands, when separated on SDS-PAGE (Tris-glycine buffer). The Blue Marker is dissolved in the buffer (20 mM Tris-phosphate, pH 7.5 at 25°C), 2 % SDS, 0.2 mM Dithiothreitol, 3.6 M Urea, and 15 % (v/v) Glycerol).

Features

- Broad range: 10-245 kDa
- Ready-to-use: supplied in a loading buffer for direct loading on gels
- Easy to identify with the reference bands at ~25 and ~90 kDa coupled with green and red chromophore respectively
- Sharp bands

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.

Quality Control

Under suggested conditions, the Blue Marker resolves 12 major bands in 15% SDS-PAGE (Tris-glycine buffer) and after Western blotting to nitrocellulose membrane.

Recommendation

1. Thaw the Blue Marker either at room temperature or at 37-40°C for a few minutes to dissolve precipitated solids. Do not boil.
2. Mix thoroughly to ensure the solution is homogeneous.
3. Load the following volumes of the ladder on SDS-polyacrylamide gel:
   - 5 µl per well for mini-gels, 2.5 µl per well for blots
   - 10 µl per well for large gels, 5 µl per well for blots