

Specification

PVDF-Star Transfer Membrane 0.45 µm

A5243

Product Code:	A5243
Product Name:	PVDF-Star Transfer Membrane 0.45 µm
Short Description:	delivery form: supplied as a roll (30 cm x 3 m)
Specifications:	<p>♦ Application</p> <ul style="list-style-type: none"> • Western blots • Immunoblotting • Amino acid and protein analysis <p>♦ Features and Benefits</p> <ul style="list-style-type: none"> • Superior strength: Can withstand aggressive handling or be used with automated equipment without breaking or tearing. • Exceptional sensitivity: Detects low-level components • Hydrophobic: Resists water • High binding capacity: Binds a wide range of fragment sizes • High range of chemical compatibility: Resistant to most commonly used chemicals and chemically aggressive solvents <p>Thickness: 140 - 250 µm</p> <p>Pore size: 0.45 µm</p> <p>Protein binding: 125 µg/cm²</p>
WGK:	1
Storage:	RT
CS:	39209953

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Comment

PVDF-Star is a naturally hydrophobic, unsupported polyvinylidene fluoride transfer membrane, designed to deliver the highest binding capacity combined with low backgrounds in western transfer, amino acid analysis and protein sequencing applications. Exceptional quality control procedures throughout the manufacturing process eliminates "lot-to-lot" variation and greatly minimizes "bald spot" problems. PVDF assures reproducible results with maximum sensitivity. Protein can be electroblotted from a variety of gel matrices onto PVDF-Star. Because of its high sensitivity and strong binding affinity, protein will not pass through the membrane. The broad chemical compatibility of PVDF-Star allows the use of all commonly used stains such as: Amido Black, Colloidal Gold, Coomassie Blue, India Ink and Ponceau-S. PVDF-Star will not degrade, distort or shrink when using high concentrations of methanol for destaining. The exceptional tensile strength allows for multiple reprobings and easy removal of target bands without concern for the membrane tearing, fracturing or curling. The appearance of a membrane, soaked in organic solvents: Due to the hydrophobic nature of PVDF membranes, such membranes have to be soaked in organic solvents during the blotting procedure. The whole surface is rapidly wetted in methanol or ethanol directly or by capillary forces. Our PVDF membrane is composed of a smooth lower layer and a rough upper surface. Wetting leads to a milky appearance of the membrane. While the wet lower layer appears transparent, the rough upper surface looks opaque due to the light refraction. The rough upper surface is placed on the gel, because it has the larger surface and therefore a higher binding capacity for proteins. To assure you of the highest binding and to eliminate sample "blow through", regardless of how small your peptides may be, AppliChem will offer other pore size ratings on request. As standard product, AppliChem offers the 0.45 micron pore size. PVDF-Star exhibits efficient transfer of proteins in a wide range of molecular weights, from 5 kDaltons to 700 kDaltons. The binding capacity averages 125 µg/cm² for larger globular proteins such as immunoglobulins and higher binding capacities for small peptides.