protein purification, concentration and analysis for protein chemists
A long-standing commitment to protein research

Since the development of Immobilon®-P Transfer Membrane nearly two decades ago, Millipore scientists have remained committed to the design of quality products for protein scientists. The result is a broad product line and constant developments to support your research.

High performance, innovative products

From our family of Amicon® ultrafiltration devices, to ZipTip® Pipette Tips for microvolume purification, to our superior line of Immobilon Transfer Membranes, Millipore provides trusted products for use in the concentration, purification and characterization of your samples.

Amicon family of devices

With the acquisition of Amicon in 1997, Millipore has been able to offer the most complete ultrafiltration product line to support a broad range of application needs for the concentration and purification of proteins.

Unmatched customer support

Each Millipore product is backed by experienced technical applications specialists and an expansive library of protocols, application notes, user guides, specifications and frequently asked questions. Resources are available online or through the Millipore office nearest to you (see back cover for phone numbers).

Count on Millipore

When a few microliters of protein represent days of work, years of research, and, ultimately, millions of dollars, every drop counts.
Pure Proteins

Guide to Applications

1. Millex™ Filter Units: Particulate removal prior to HPLC
2. Microcon® YM-10: Protein removal prior to C₁₈ HPLC
   - Microcon-SCX: Remove detergents and salt prior to C₁₈ HPLC
3. Amicon Ultrafiltration Devices: Concentration and desalting of column fractions
4. Centrilutor®: Electroelution of protein from electrophoresis gels
5. Immobilon-P and Immobilon-PSQ: Blotting and immunodetection
6. ZipTip Pipette Tips: Concentration and sample prep before Mass Spectrometry
7. Immobilon-P and Immobilon-PSQ: Blotting and direct MS analysis
8. Microcon-SCX: Remove amine containing buffers prior to amino acid analysis
   - Microcon YM-3: Remove partially hydrolyzed proteins
9. Immobilon-P and Immobilon-CD: Electrotransfer or spotting for protein sequencing
10. Amicon Ultrafiltration Devices: Concentrate and exchange H₂O for H₂O
11. Amicon Ultrafiltration Devices: Concentrate and exchange buffers prior to crystal formation
12. MultiScreen™: Enzyme or cell based assays
13. MultiScreen: Protein and receptor binding assays
There’s nothing to lose with Millipore on your side

Millipore offers a complete range of ultrafiltration membranes and devices for sample concentration, purification, crude fractionation, and desalting or buffer exchange of soluble macromolecules.

High recovery Ultracel™ membranes in every device

The Amicon device family is made exclusively with Ultracel regenerated cellulose membranes for maximum sample recovery. The Ultracel ultrafiltration membranes are recommended for a broad range of sample types and are ideal for concentrating and desalting extremely dilute solutions. The tight hydrophilic microstructure of Ultracel membranes ensures the lowest possible adsorption of protein and other macromolecules, and the highest recovery of fully functional proteins.

The protein retention (or membrane rejection) characteristic of the membrane is typically rated at greater than 95% of a globular solute with that molecular weight limit.

Maximum recovery characteristics

The unique Amicon device design, with a built-in dead-stop and patented invert spin, allows for maximum recovery of your final concentrated sample.

Technical literature

Also available online at www.millipore.com/amicon
- Amicon Family Centrifugal Devices Brochure (FF021)
- Ultrafiltration Selection Guide (PS009)
- Desalting and Buffer Exchange with Millipore Centrifugal Devices Application Note (AN001EN00)
- Microcon Centrifugal Filter Devices Data Sheet (PF185)
- Centricon Data Sheet (PF461EN00)
- Centricon Plus Centrifugal Filter Devices Data Sheet (PF188)
- Amicon Centriplus Centrifugal Filter Devices Data Sheet (PF462)
### Selection Guide

#### Ultracel Membranes

Molecular weight cutoffs range from 3,000 to 100,000 and are optimized for a range of applications to provide the highest possible sample recoveries.

<table>
<thead>
<tr>
<th>Membrane NMWL</th>
<th>Protein Solute MWCO</th>
<th>UF Rejection* (%)</th>
<th>Retentate Recovery** (%)</th>
<th>Applications</th>
</tr>
</thead>
</table>
| 3,000         | Protamine Sulfate 5 – 10,000 Cytochrome c 12,400 | 95 – 100 100 | 85 – 90 95 – 100 | • Protein concentration  
• Protein purification  
• Desalting of column fractions  
• Peptide concentration and desalting/buffer exchange  
• Removal of partially hydrolyzed proteins |
| 5,000         | Protamine Sulfate 5 – 10,000 Cytochrome c 12,400 | 78 – 80 100 | 55 – 60 95 – 100 | • Protein concentration  
• Protein purification  
• Desalting of column fractions |
| 10,000        | Cytochrome c 12,400 | 100 | 95 – 100 | • Protein concentration  
• Protein purification  
• Desalting of column fractions |
| 30,000        | α-chymotrypsinogen 25,000 BSA 67,000 | 97 – 100 | 80 – 85 | • Protein concentration  
• Protein purification  
• Desalting of column fractions  
• Protein isolation from cell lysates  
• Antibody concentration  
• Bound vs. free drugs from serum/plasma (protein removal)  
• Protein removal prior to C18 HPLC |
| 50,000        | BSA 67,000 Phosphorylase b 97,400 | 98 – 100 98 – 100 | 90 – 95 95 – 100 | • Protein concentration  
• Protein purification  
• Desalting of column fractions  
• Antibody concentration  
• Bound vs. free drugs from serum/plasma (protein removal)  
• Antigen purification  
• Antibody concentration |
| 100,000       | Phosphorylase b 97,400 IgG Fr II 156,000 | 90 – 95 97 – 100 | 80 – 85 90 – 95 | • Protein concentration  
• Protein purification  
• Desalting of column fractions  
• Antibody concentration  
• Antibody concentration  
• Bound vs. free drugs from serum/plasma (protein removal)  
• Antibody concentration |

* UF rejection is the percentage of product/solute that is retained by the UF membrane  
** % retentate recovery is the mass of the total product recovered in the retentate (concentrated product yield), or the percentage of product actually recovered in the concentrate

### Amicon Centrifugal Devices

Maximize sample recovery with Microcon, Centricon®, Centriplus® and the high throughput Centricon-Plus devices.

<table>
<thead>
<tr>
<th></th>
<th>Microcon¹</th>
<th>Centricon</th>
<th>Centriplus</th>
<th>Centricon Plus-20</th>
<th>Centricon Plus-80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum starting volume [mL]</td>
<td>0.5</td>
<td>2</td>
<td>10 – 15</td>
<td>20</td>
<td>80</td>
</tr>
<tr>
<td>Minimum concentrate volume [µL]</td>
<td>5 – 15</td>
<td>25</td>
<td>300</td>
<td>200</td>
<td>300</td>
</tr>
<tr>
<td>Centrifuge rotor type and size (mL)</td>
<td>Fixed angle 1.5</td>
<td>Fixed angle 15</td>
<td>Swinging bucket or fixed angle 50</td>
<td>Swinging bucket 50</td>
<td>Swinging bucket 250</td>
</tr>
<tr>
<td>Maximum centrifugal force (x g)</td>
<td>14,000</td>
<td>5,000</td>
<td>3,000</td>
<td>4,000</td>
<td>3,500</td>
</tr>
<tr>
<td>Active Filtration area [cm²]</td>
<td>0.34</td>
<td>0.92</td>
<td>2.34</td>
<td>10.33</td>
<td>19</td>
</tr>
</tbody>
</table>

¹Also available in 96-place holder Microcon-96

The Amicon devices are available in volume segments for samples less than 0.5 mL up to 80 mL volumes.
Cleaner Spectra for Better Identification and Characterization

Use ZipTip Pipette Tips to easily purify femtomoles to picomoles of proteins in seconds before mass spectrometry. Available with a variety of resins to meet your application needs, ZipTip Pipette Tips are a fast and simple method for microvolume purification prior to analysis.

One device for sample preparation and liquid handling

ZipTip is a 10 µL pipette tip with a microvolume bed of reversed-phase, or affinity media fixed at its end with no dead volume. Use ZipTip Pipette Tips for concentrating, desalting, fractionating, and enriching 1.0 µL – 100 µL of protein or peptide sample prior to analysis.

Fast and simple

To bind sample, aspirate and dispense it through the resin several times. Then, wash away contaminants and unwanted biomolecules. Elute the concentrated, purified sample in 0.5 µL to 4 µL of compatible solvent and directly transfer it to a MALDI-TOF MS target, nanospray needle, or vial.
ZipTip Pipette Tips

Choose the ZipTip Pipette Tip for your application

ZipTip Pipette Tips will purify your sample prior to mass spectrometry, microbore HPLC, capillary electrophoresis, or other analytical techniques. They are compatible with single- or multi-channel pipettors, standard blunt-end HPLC needles, or automated liquid handling stations.

Choose the ZipTip Pipette Tip for your application

Choose the ZipTip Pipette Tip for your application

Choose the ZipTip Pipette Tip for your application

C₁₈/µ-C₁₈
- Desalt and concentrate peptides, low molecular weight proteins, or oligonucleotides
- Step-fractionate complex peptide or protein mixtures for increased MALDI-TOF MS sensitivity and resolution
- Elute volumes as low as 0.5 µL with ZipTipµ-C₁₈

C₄
- Desalt and concentrate low to intermediate molecular weight proteins and proteins >100,000 MW

Metal Chelate (MC)
- Enrich phosphopeptides
- Purify 6xHis-tagged proteins

Choose the ZipTip Pipette Tip for your application

Prepare one sample in 60 seconds – or as many as 400 samples in 60 minutes

ZipTip Pipette Tips are compatible with these automated systems
- PE BioSystems SymBio™ Sample Workstation for Biospectrometry™
- Genomic Solutions ProMS™ Sample Preparation Station
- Bruker Daltonics MAP™ II and MAP II/8 MALDI AutoPrep System
- Micromass® 2700-MS and MassPREP™ Sample Preparation Station
- CyBio CyBi™-Well 96 Automated Pipettor

Technical literature

Also available online at www.millipore.com/ziptip
- ZipTip Data Sheet (PF172EN00)
- Protocol-Fractionation of Complex Peptide or Protein Mixtures Prior to MALDI-TOF MS Using ZipTipC₁₈, ZipTipµ-C₁₈, and ZipTipC₄ Pipette Tips (TN226)
- Protocol-Sample Preparation of Peptides or Proteins Prior to MALDI-TOF MS Using ZipTipC₁₈, ZipTipµ-C₁₈, and ZipTipC₄ Pipette Tips (TN224)
- Protocol-Sample Preparation of Peptides or Proteins Prior to Nanoelectrospray MS Using ZipTipMC Pipette Tips (TN228)
- Protocol-Purification of 6xHis-tagged Proteins Prior to MALDI-TOF MS using ZipTip Pipette Tips (TN229)
- Recent Scientific Conference Poster Presentations also available online
For superior results, use Immobilon Transfer Membranes

Life scientists have long relied on Millipore Transfer Membranes for protein blotting techniques. This family of high-performance membranes is optimized to deliver the results you need for effective protein analysis.

Superior protein binding and high signal to noise ratio

Immobilon-P and Immobilon-PSQ Transfer Membranes are composed of polyvinylidene fluoride (PVDF) matrix that has been specifically developed and optimized for a wide range of protein chemistry applications including immunodetection, rapid immunodetection and protein sequencing. It has also been referenced as a substrate for MALDI-TOF MS. PVDF is superior to other protein blotting membranes because it binds and retains proteins efficiently while remaining compatible with a variety of blocking protocols. Signal to noise ratios on PVDF are higher than those on other membrane substrates.

Improved performance over nitrocellulose

<table>
<thead>
<tr>
<th>Membrane</th>
<th>pmol Bound Initially</th>
<th>% Retained</th>
<th>pmol Retained</th>
</tr>
</thead>
<tbody>
<tr>
<td>Immobilon-P</td>
<td>36.0</td>
<td>80.2</td>
<td>28.9</td>
</tr>
<tr>
<td>Nitrocellulose</td>
<td>40.6</td>
<td>54</td>
<td>21.9</td>
</tr>
</tbody>
</table>

The Immobilon-P membrane retains a higher proportion of electroblotted protein in standard immunodetection buffers.

Unlike nitrocellulose, Immobilon-P and Immobilon-PSQ membranes also tolerate the high concentrations of methanol used in transfer buffers and ionic dyes without shrinking or altering the electrophoretic bands.

Exceptional handling and staining characteristics

Immobilon Transfer Membranes are compatible with the solvents and harsh conditions used in protein sequencing and amino acid analysis as well as the solutions utilized in electrotransfer and detection protocols. The PVDF substrate allows easy handling without cracking or curling. The membrane can be cut without fracturing and will not tear under normal handling conditions. Immobilon-P and Immobilon-PSQ are compatible with chromogenic, chemiluminescent and chemifluorescent detection techniques.

Ideal surface for rapid immunodetection

The hydrophobic properties of Immobilon-P make it the ideal matrix for the Rapid Immunodetection Procedure developed by Millipore. Rapid Immunodetection eliminates the need for blocking the membrane prior to immunodetection on a western blot. As a result, the number and length of wash steps are drastically reduced to enable faster results without compromising specificity or sensitivity.

Comparison of Rapid versus Standard Immunodetection of transferrin in a double dilution series of human serum using BCIP/NBT as the substrate on Immobilon-P Transfer Membrane.
Optimized membranes

Immobilon-P<sup>PSQ</sup>: The high surface area of this PVDF membrane maximizes protein binding making it the ideal substrate for high efficiency capture of peptides and proteins in the <20 kDa range. When transferring proteins in the 10 – 20 kDa range, both Immobilon-P and Immobilon-P<sup>PSQ</sup> should be investigated for optimal signal.

Immobilon-CD: Use this cationically derivatized, hydrophilic PVDF membrane for optimal protein fragmentation and internal sequencing. Immobilized proteins are enzymatically digested and recovered fragments can be separated by HPLC or electrophoresis.

Choose the Immobilon Transfer Membrane best suited for your application

<table>
<thead>
<tr>
<th>Application</th>
<th>Immobilon-P</th>
<th>Immobilon-P&lt;sup&gt;PSQ&lt;/sup&gt;</th>
<th>Immobilon-CD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western blotting</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Low MW western blotting</td>
<td></td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>Reprobing on western blotting</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amino acid analysis</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>Glycoprotein detection</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Internal protein sequencing</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>Peptide mapping</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>Protein sequencing</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>Dot/Slot</td>
<td>●</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Key: ● excellent; ■ good; ▲ testing recommended prior to use

Technical literature
Also available online at www.millipore.com/immobilon
- Immobilon Brochure (FF250)
- Rapid Immunodetection Protocol (RP562)
- Protein Blotting Applications Guide (TP001)
- Rapid Immunodetection Method on Immobilon-P Using Chemiluminescence (TN051)
- Transillumination Application Note (AN031)
## Amicon Centrifugal Devices

<table>
<thead>
<tr>
<th>Model &amp; Max. Volume</th>
<th>Membrane Type</th>
<th>MW Cut-off</th>
<th>8/pk</th>
<th>24/pk</th>
<th>100/pk</th>
<th>500/pk</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Microcon</strong></td>
<td><strong>Ultracel-YM</strong></td>
<td>3,000</td>
<td>42420</td>
<td>42403</td>
<td>42404</td>
<td>—</td>
</tr>
<tr>
<td>500 µL</td>
<td>Regenerated cellulose</td>
<td>42421</td>
<td>42406</td>
<td>42407</td>
<td>42408</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>30,000</td>
<td>42422</td>
<td>42409</td>
<td>42410</td>
<td>42411</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50,000</td>
<td>42423</td>
<td>42415</td>
<td>42416</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100,000</td>
<td>42424</td>
<td>42412</td>
<td>42413</td>
<td>42414</td>
</tr>
<tr>
<td><strong>Microcon-SCX</strong></td>
<td>Sulfonated polystyrene</td>
<td>3,000</td>
<td>42460</td>
<td>42461</td>
<td>42462</td>
<td>—</td>
</tr>
<tr>
<td>500 µL</td>
<td>divinyl benzene</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Centricon</strong></td>
<td><strong>Ultracel-YM</strong></td>
<td>3,000</td>
<td>42440</td>
<td>4202</td>
<td>4203</td>
<td>—</td>
</tr>
<tr>
<td>2 mL</td>
<td>Regenerated cellulose</td>
<td>42441</td>
<td>4205</td>
<td>4206</td>
<td>4207</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>30,000</td>
<td>4242AM</td>
<td>4208</td>
<td>4209</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50,000</td>
<td>42423</td>
<td>4224</td>
<td>4225</td>
<td>—</td>
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<tr>
<td></td>
<td></td>
<td>100,000</td>
<td>4244</td>
<td>4211</td>
<td>4212</td>
<td>4213</td>
</tr>
<tr>
<td><strong>Centriplus</strong></td>
<td><strong>Ultracel-YM</strong></td>
<td>3,000</td>
<td>44110</td>
<td>4420</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>10 – 15 mL</td>
<td>Regenerated cellulose</td>
<td>44111</td>
<td>4421</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30,000</td>
<td>4412</td>
<td>4422</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50,000</td>
<td>4413</td>
<td>4423</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100,000</td>
<td>4414</td>
<td>4424</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td><strong>Model &amp; Max. Volume</strong></td>
<td><strong>Membrane Type</strong></td>
<td><strong>MW Cut-off</strong></td>
<td><strong>2/pk</strong></td>
<td><strong>8/pk</strong></td>
<td><strong>24/pk</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Centricon Plus-20</strong></td>
<td><strong>Ultracel-PL</strong></td>
<td>5,000</td>
<td>UFC2 LCC 02</td>
<td>UFC2 LCC 08</td>
<td>UFC2 LCC 24</td>
<td></td>
</tr>
<tr>
<td>20 mL</td>
<td>Regenerated cellulose</td>
<td>10,000</td>
<td>UFC2 LGC 02</td>
<td>UFC2 LGC 08</td>
<td>UFC2 LGC 24</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>30,000</td>
<td>UFC2 LTK 02</td>
<td>UFC2 LTK 08</td>
<td>UFC2 LTK 24</td>
<td></td>
</tr>
<tr>
<td><strong>Centricon Plus-80</strong></td>
<td><strong>Ultracel-PL</strong></td>
<td>5,000</td>
<td>UFC5 LCC 02</td>
<td>UFC5 LCC 08</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td>80 mL</td>
<td>Regenerated cellulose</td>
<td>10,000</td>
<td>UFC5 LGC 02</td>
<td>UFC5 LGC 08</td>
<td>—</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>30,000</td>
<td>UFC5 LTK 02</td>
<td>UFC5 LTK 08</td>
<td>—</td>
<td></td>
</tr>
</tbody>
</table>
### ZipTip Pipette Tips

<table>
<thead>
<tr>
<th>Resin</th>
<th>8/pk</th>
<th>24/pk</th>
<th>96/pk (96-place tip rack)</th>
<th>960/pk (10 x 96-place tip rack)</th>
</tr>
</thead>
<tbody>
<tr>
<td>C₁₈</td>
<td>ZTC1 8S0 08</td>
<td>ZTC1 8S0 24</td>
<td>ZTC1 8S0 96</td>
<td>ZTC1 8S9 60</td>
</tr>
<tr>
<td>µ-C₁₈</td>
<td>ZTC1 8M0 08</td>
<td>ZTC1 8M0 24</td>
<td>ZTC1 8M0 96</td>
<td>ZTC1 8M9 60</td>
</tr>
<tr>
<td>C₄</td>
<td>ZTC0 4S0 08</td>
<td>ZTC0 4S0 24</td>
<td>ZTC0 4S0 96</td>
<td>ZTC0 4S9 60</td>
</tr>
<tr>
<td>MC</td>
<td>ZTOM CS0 08</td>
<td>ZTOM CS0 24</td>
<td>ZTOM CS0 96</td>
<td>ZTOM CS9 60</td>
</tr>
</tbody>
</table>

### Immobilon Transfer Membranes

#### Immobilon-P (PVDF), 0.45 µm pore size

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Qty/Pk</th>
<th>Catalogue No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 x 8.4 cm sheet</td>
<td>50</td>
<td>IPVH 078 50</td>
</tr>
<tr>
<td>9 x 12 cm sheet</td>
<td>10</td>
<td>IPVH 091 20</td>
</tr>
<tr>
<td>10 x 10 cm sheet</td>
<td>10</td>
<td>IPVH 101 00</td>
</tr>
<tr>
<td>15 x 15 cm sheet</td>
<td>10</td>
<td>IPVH 151 50</td>
</tr>
<tr>
<td>20 x 20 cm sheet</td>
<td>10</td>
<td>IPVH 202 00</td>
</tr>
<tr>
<td>26 x 26 cm sheet</td>
<td>10</td>
<td>IPVH 304 F0</td>
</tr>
<tr>
<td>26.5 cm x 3.75 m roll</td>
<td>1</td>
<td>IPVH 000 10</td>
</tr>
</tbody>
</table>

#### Immobilon-P<sub>SQ</sub> (PVDF), 0.2 µm pore size

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Qty/Pk</th>
<th>Catalogue No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 x 10 cm sheet</td>
<td>10</td>
<td>ISEQ 101 00</td>
</tr>
<tr>
<td>15 x 15 cm sheet</td>
<td>10</td>
<td>ISEQ 151 50</td>
</tr>
<tr>
<td>20 x 20 cm sheet</td>
<td>10</td>
<td>ISEQ 202 00</td>
</tr>
<tr>
<td>26 x 26 cm sheet</td>
<td>10</td>
<td>ISEQ 262 60</td>
</tr>
<tr>
<td>26.5 cm x 3.75 m roll</td>
<td>1</td>
<td>ISEQ 000 10</td>
</tr>
</tbody>
</table>

#### Immobilon-CD, 0.1 µm cationically derivatized, hydrophilic PVDF

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Qty/Pk</th>
<th>Catalogue No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>26 cm x 3.75 m roll</td>
<td>1</td>
<td>ICDM 000 10</td>
</tr>
</tbody>
</table>
To Place an Order or Receive Technical Assistance
For additional information call your nearest Millipore office:
In the U.S. and Canada, call toll-free 1-800-MILLIPORE
(1-800-645-5476)
In the U.S., Canada and Puerto Rico, fax orders to 1-800-MILLIFX
(1-800-645-5439)
On the Internet http://www.millipore.com
E-mail: tech_service@millipore.com

Additional Products

Microcon-SCX Microconcentrator
Microcon-SCX employs a strong cation exchange membrane for rapid concentration and/or purification of peptides, amino acids or DNA oligomers. It is ideal for removal of salts, detergents and other low-MW contaminants from samples before structural analysis. [Recommended literature: P446]

Microcon-96 Multiwell Assemblies
The proven performance of Microcon filter units is available in a high throughput format. Microcon-96 assemblies are pre-loaded with 96 Microcon-YM Ultracel filter units for rapid centrifugation of 100 – 300 µL samples. [Recommended literature: PF018EN00]

Centrilutor Micro-Electroeluter
Centrilutor allows rapid small recoveries of small amounts of protein (1 to 25 µg) after electrophoretic separation. It is ideal for purification of very small quantities of proteins for automated protein sequencing, peptide mapping, and amino acid analysis. Centrilutor employs the use of the Centricon concentrator filter devices for sample collection during electrophoresis, and for protein concentration. [Recommended literature: PF008EN00]

MultiScreen Filter Plates
MultiScreen 96-well filter plates are available in a broad range of plate and filter materials for applications including enzyme assays and protein and receptor binding assays. [Recommended literature: MW021, FF005EN00]

Sample Prep Millex Filter Units
Use Millex syringe-driven filter units for particulate removal prior to HPLC. For protein solutions, use Millex with low-protein binding PVDF or PTFE membranes in 0.45 or 0.20 µm pore sizes. [Recommended literature: PF050EN00]
For Technical Assistance
Contact Millipore: 1-800-MILLIPORE (1-800-645-5476)
E-mail: tech_service@millipore.com

Additional Products

Microcon-SCX Microconcentrator
Microcon-SCX employs a strong cation exchange membrane for rapid concentration and/or purification of peptides, amino acids or DNA oligomers. It is ideal for removal of salts, detergents and other low-MW contaminants from samples before structural analysis. [Recommended literature: P446]

Microcon-96 Multiwell Assemblies
The proven performance of Microcon filter units is available in a high throughput format. Microcon-96 assemblies are pre-loaded with 96 Microcon-YM Ultracel filter units for rapid centrifugation of 100 – 300 µL samples. [Recommended literature: PF1018EN00]

Centrilutor Micro-Electroeluter
Centrilutor allows rapid and high yield recovery of small amounts of protein (1 to 25 µg) after electrophoretic separation. It is ideal for purification of very small quantities of proteins for automated protein sequencing, peptide mapping, and amino acid analysis. Centrilutor employs the use of the Centricon concentrator filter devices for sample collection during electroelution, and for protein concentration. [Recommended literature: PF008EN00]

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