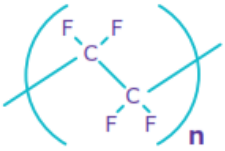
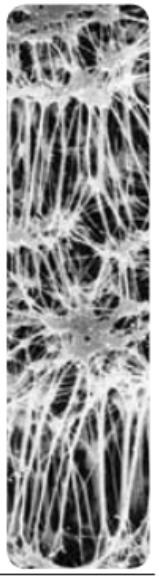
Filtri - membranski, za HPLC, PTFE, LCR

LCR membrana je nepodprta hidrofilna PTFE membrana, združljiva z vsemi najpogosteje uporabljenimi HPLC topili, tekom proizvodnje gre skozi poseben postopek obdelave, kjer se odstranijo vsi ostanki delcev, ki bi iz membrane tekom filtracije lahko migrirali v topilo; rezultat te ultra čiste membrane so jasnejše analize brez kromatografskih vrhov, ki bi bili posledica nečistoč v mobilni fazi

Uporaba: filtracija mobilne faze za HPLC, bistrenje kislin in baz, izolacija RNA

LCR Membrane





Brand Name	LCR Membrane
Membrane Material	Hydrophilic Polytetrafluoroethylene (PTFE)
Pore Sizes (µm)	0.45 only
Thickness (µm)	140
Porosity (%)	80
Water Flow Rate (mL/min/cm²) @27.5 in. Hg	28.4
Air Flow (L/min/cm²) @ 10 psi	1.1 (typical values)
Wettability	Hydrophilic
Temperature Limitations	130 °C max
Chemical Compatibility	Compatible with both aqueous and organic solvents
Sterilizability	Autoclave, EtO
Surface Option	White
Key Properties	Minimal extractable levels, broad chemical compatibility
Key Applications	HPLC mobile phase filtration, clarifying acids, bases and dilute protein solutions
Devices	Millex® syringe filters, Millex Samplicity® filters, filter discs

LCR PTFE Membrane Filters

Low extractables PTFE for clearer results

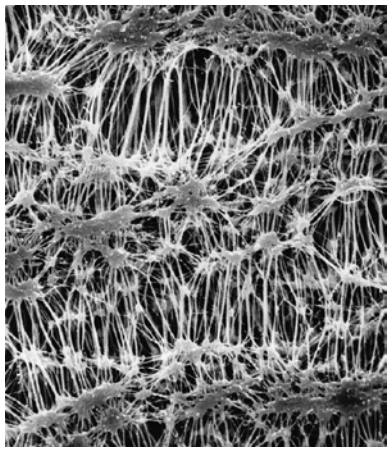
LCR membrane is an unsupported, hydrophilic PTFE membrane compatible with all commonly used HPLC solvents. The membrane undergoes a special treatment process to remove any residual extractabes, ensuring that it will not add anything to your HPLC solvents, providing clearer analysis results.

Features & Benefits

- Hydrophilic membrane can be used to filter aqueous fluids without prior wetting
- Ultraclean membrane will not add extractables to your samples or solvents

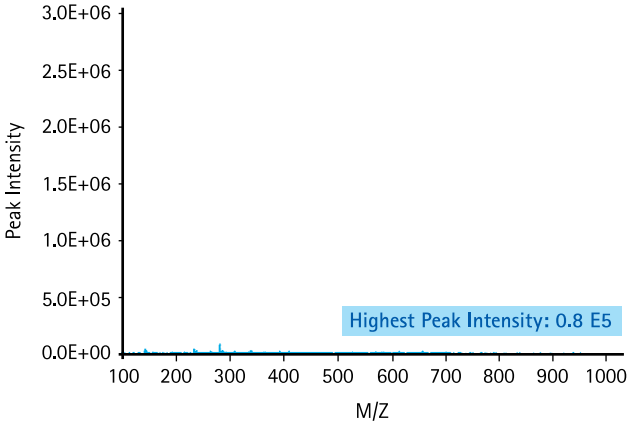
Applications

HPLC Mobile Phase Filtration; Clarifying Acids, Bases and Dilute Protein Solutions; Isolating RNA

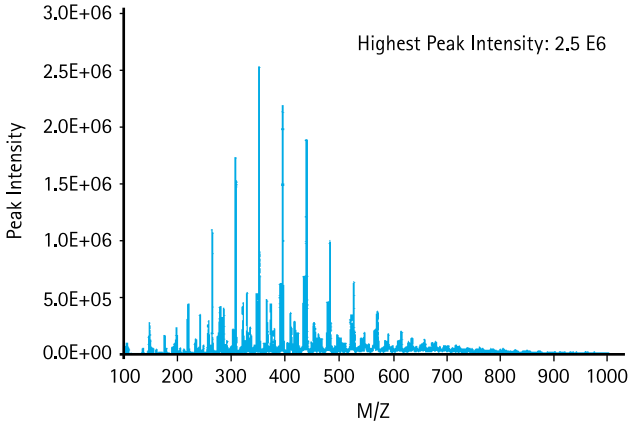


Product Performance

A. Millex® Filter Unit, PTFE



B. Polypropylene



Millex® filters feature low extractables. Mass spectrometry detects few extractable impurities from Millex® syringe filters containing 0.45 µm pore hydrophilic PTFE membrane (A). In contrast, a syringe filter containing 0.45 µm pore polypropylene membrane from another vendor (B) shows significant leaching of impurities.

Specifications

Filter Code[1]	Pore Size (µm)	Bubble Point[2] (psi)	Thickness (µm)	Water Flow Rate[3] (mL/min/cm²)	Typical Air Flow Rate[4] (L/min/cm²)	Oper. Temp. (°C)	Porosity (%)
FHLC	0.45	9.2	140	28.4	1.1	130	80

[1]Corresponds to first 4 digits of catalog number.
[2]Tested in methanol.
[3]Water Flow Rate measured with 500 mL of water at 25 °C and 27.5 in. Hg vacuum through 47 mm disc.
[4]Measured at 10 psi.

Ordering Information

Description	Pore Size (µm)	Filter Diameter (mm)	Qty/Pk	Catalogue No.
LCR PTFE Membrane Filters	0.45	13	100	FHLC01300
		25	100	FHLC02500
		47	100	FHLC04700

For more information visit: www.merckmillipore/filterdiscs