

Merck

LC-Pak®

LCPAK00A1

Introduction

The LC-Pak® polisher is a reverse-phase C18 granular silica-based cartridge. It has been validated to produce 500 L of water suitable for trace and ultra-trace organic analysis, when fed with Milli-Q® ultrapure water.

Ultrapure water treated by an LC-Pak® polisher is suitable for eluent, buffer or blank preparation, sample dilution and standard preparation, as well as column rinsing in applications such as UHPLC, LC-MS, LC-MS-MS.

Instructions are available as a self-guided wizard, directly on the Q-POD® dispenser display of the Milli-Q® IQ 7000. You can access them from the Consumables menu or the Maintenance menu. For more information, refer to the user manual or quick guide.



Conditioning

- The LC-Pak® polisher is manufactured, packed and shipped dry.
- Prior to installation, it is necessary to condition its reverse-phase silica with high grade methanol (99.9+%).

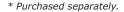


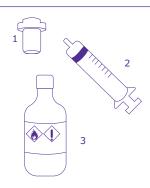
Wear eye safety glasses, laboratory gloves and other appropriate safety equipment when working with methanol.

Step 1

Required material for LC-Pak® conditioning:

- 1. Syringe adapter
- 2. Clean glass Luer slip tip syringe (50 mL) *
- 3. 50 mL of high grade methanol *



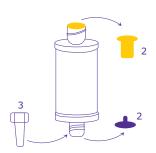


Step 2

- 1. Remove the new LC-Pak® from the package.
- 2. Remove and discard the caps at the inlet and outlet of the cartridge.
- 3. Install the flow tip at the outlet.

Note:

The flow tip can be located either on your old LC-Pak® or, if it is a new a installation, it is provided with the Application-Pak installation kit (EDSKIT001).

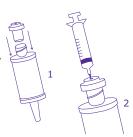


Step 3

- 1. Install the provided syringe adapter at the inlet of the new LC-Pak®.
- 2. Fill the cartridge slowly the with 50 mL of methanol using the glass syringe.

Note:

Use fresh methanol to avoid contamination. During conditioning, the media may become slightly warm.

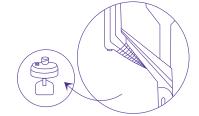


Installation

• The LC-Pak® cartridge has a Luer female inlet connection designed for direct connection to the outlet of Q-POD® remote dispenser of Milli-Q® IQ 7000 system.

Step 4

• Remove the expired Application POD-Pak if any.



Step 5

• Twist the new LC-Pak® into place.



Step 6

Flush the cartridge with ultrapure water for at least 10 minutes.

- 1. Press the dispenser wheel to start rinsing.
- 2. After 10 minutes (at least 20 L) of rinsing, press the dispenser wheel again to complete the installation.



Step 7

• The LC-Pak® installation is now complete. You can dispense ultrapure water from the cartridge for your application.

Your LC-Pak® certificate of quality is available on **mymilliqconsumables.com**





Operation

Every day, discard the first liter of water produced by the water purification system to minimize environmental contamination from the water outlet.

Multiple applications

If water dispensed requires bacteria levels below 0.1 CFU/mL and particles < 0.22 μm, you can adapt a Millipak® filter after the LC-Pak® cartridge using the connector provided in the installation and conditioning kit (EDSKIT001).

Water purified through this cartridge may not be suitable for other applications.

For your Milli-Q® water to match several applications, you may connect up to 4 Q-POD® remote dispensers to your Milli-Q® production unit. Install your LC-Pak® at the outlet of one Q-POD® dispenser and select amongst our range of POD-Paks the suitable ones for your other applications (visit **mymilliqconsumables.com**)

Maintenance

Validation tests performed in our laboratories have demonstrated that, once conditioned, the LC-Pak® cartridge can deliver ultrapure water suitable for UHPLC, LC-MS, LC-MS-MS applications for at least 500 liters when fed by ultrapure water from a Milli-Q® IQ 7000 water purification system.

Specifications	
Feed water	Resistivity 18.2 M Ω .cm @ 25°C and TOC < 5 ppb
Inlet connection	Luer female
Water temperature	5 – 30°C
Cartridge lifetime	500 liters

Material	
Housing	Polypropylene
Connector	Polyethylene
Purification media	Reverse-phase silica beads
Sintered filter	Polypropylene
Reverse-phase silica compression disc	Polypropylene

Ordering Information	
Description	Cat. No.
LC-Pak® polisher	LCPAK00A1
Application-Pak Installation Kit	EDSKIT001

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