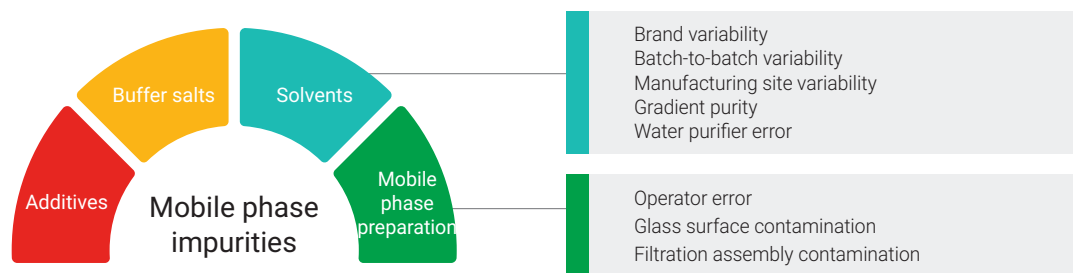


Agilent InfinityLab Quick Change Solvent Purifier



The quality and purity of the HPLC mobile phase are key to developing a robust chromatographic method. Unwanted contaminants coming from the mobile phase can show up in chromatograms as “ghost peaks”, negatively impacting detection limits or correct peak integrations.

With multiple sources of contamination, mobile phase impurities are almost unavoidable



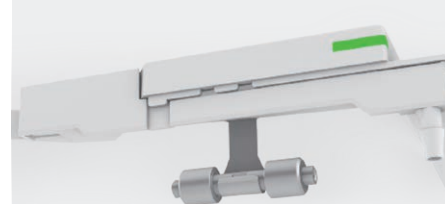
The Agilent Quick Change solvent purifier is designed to mitigate these problems and minimize the negative influence of varying mobile phase purities. The solvent purifier traps chemical impurities, which could be visible as “ghost peaks” in UV chromatograms, and binds them in the InfinityLab solvent purifier cartridge. When the capacity of the cartridge has been reached, the unique Quick Change design enables a fast and tool-free solvent purifier cartridge replacement, allowing the analysis to be continued promptly.



Spherical charcoal particles for superior trapping capacity.



Top-notch finger-tight design. The “click” indicates the maximum limit of torque that should be applied, and provides a sealing of up to 1300 bar.



Agilent InfinityLab specific pump module mounting bracket.

Table 1. Three dimensions for different instruments.

Dimensions	Applicable Instruments	Performance
2.1 × 20 mm	UHPLC	50 µL dwell volume; suitable for UHPLC applications
3.0 × 75 mm	HPLC	300 µL dwell volume; suitable for HPLC applications
4.6 × 50 mm	HPLC	500 µL dwell volume; improved adsorption capacity compared to competitor products

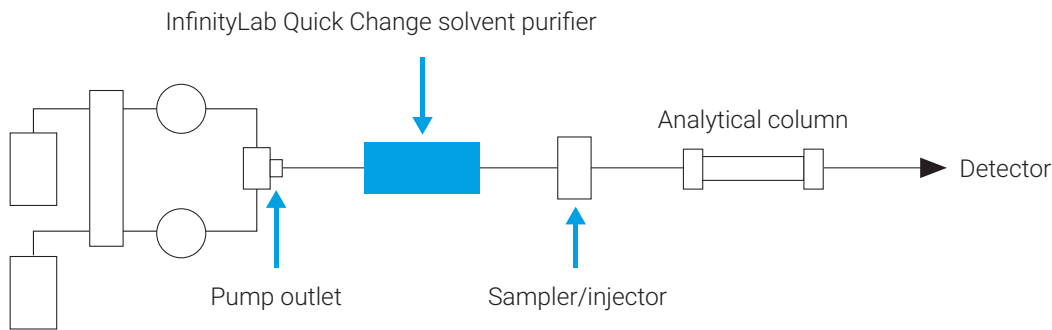


Figure 1. The installation is intended between the pump gradient mixer and the autosampler and is outside the sample flow path.

Application example

The benefits of using the Quick Change solvent purifier are shown in the two chromatograms below. The chromatograms show ghost peaks when the InfinityLab Quick Change solvent purifier has not been installed (red line) compared to a clean baseline with the InfinityLab Quick Change solvent purifier cartridge (blue line).

Gradient: 0–1 min 5% B; 1–10 min 5–95% B; 10–12 min 95% B; 12–12.5 min 95–5% B
Detection: UV at 225 nm
Separation column: Agilent InfinityLab Poroshell 120 EC-C18, 2.1 × 100 mm, 2.7 µm (part number 695575-902)

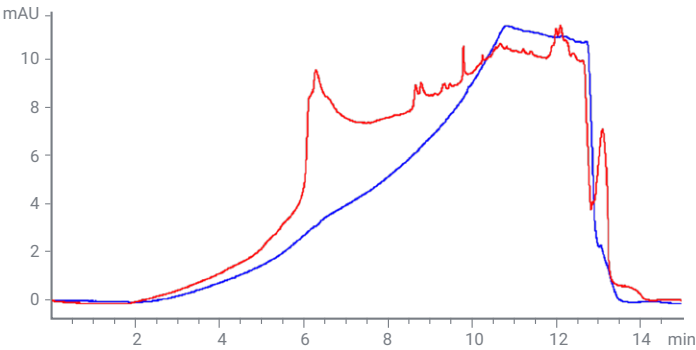


Figure 2. Chromatogram of a water/methanol gradient showing “ghost peak” impurities (red line), and purification (blue line) using the 2.1 × 20 mm Agilent InfinityLab Quick Change solvent purifier cartridge.

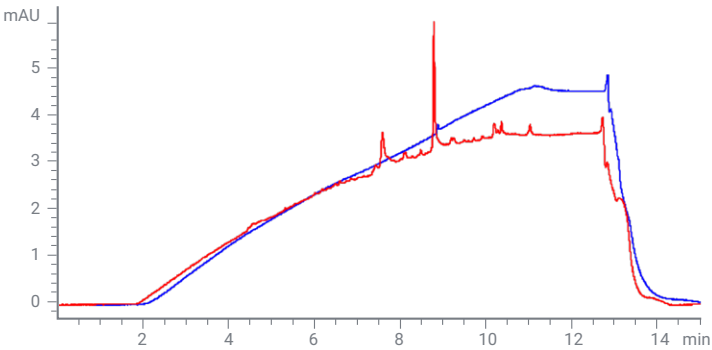


Figure 3. Chromatogram of a water/acetonitrile gradient showing “ghost peak” impurities (red line), and purification (blue line) using the 2.1 × 20 mm Agilent InfinityLab Quick Change solvent purifier cartridge.

Available Agilent products

Part Number	Description	Contents
5067-1620	Infinitylab solvent purifier assembly, 2.1 × 20 mm	Holder kit + 1 cartridge
5067-1621	Infinitylab solvent purifier assembly, 3.0 × 75 mm	
5067-1622	Infinitylab solvent purifier assembly, 4.6 × 50 mm	
5067-1623	Infinitylab solvent purifier cartridge, 2.1 × 20 mm, 1 ea	Replacement cartridge, 1/pk
5067-1625	Infinitylab solvent purifier cartridge, 3.0 × 75 mm, 1 ea	
5067-1627	Infinitylab solvent purifier cartridge, 4.6 × 50 mm, 1 ea	
5067-1624	Infinitylab solvent purifier cartridge, 2.1 × 20 mm, 5/pk	Replacement cartridge, 5/pk
5067-1626	Infinitylab solvent purifier cartridge, 3.0 × 75 mm, 5/pk	
5067-1628	Infinitylab solvent purifier cartridge, 4.6 × 50 mm, 5/pk	
Optional Products		
5005-0057	Stainless steel capillary, 0.17 × 160 mm, SL/SL (to HPLC pump)	1/pk
5004-0011	Stainless steel capillary, 0.12 × 160 mm, SL/SL (to UHPLC pump)	1/pk
5432-0062	Infinitylab cartridge holder clip	1/pk



Other Agilent InfinityLab solvent management products



LC filtration:

InfinityLab solvent filtration assembly

- InfinityLab solvent filtration assembly (part number 5191-6776), including glass funnel (250 mL), membrane holder glass base, glass flask (1 L), and aluminum clamp
- InfinityLab solvent filtration glass flask, 2 L (part number 5191-6781)
- Filter membrane, regenerated cellulose, 47 mm, pore size 0.2 µm, 100/pk (part number 5191-4340)



Purging bottle:

InfinityLab Stay Safe purging bottle (part number 5043-1339)



InfinityLab Stay Safe cap:

InfinityLab Stay Safe starter kit (part number 5043-1222)

Learn more and buy online:

www.agilent.com/chem/store

Get answers to your technical questions and
access resources in the Agilent Community:

community.agilent.com

U.S. and Canada

1-800-227-9770

agilent_inquiries@agilent.com

Europe

info_agilent@agilent.com

Asia Pacific

inquiry_lsca@agilent.com

www.agilent.com

DE-003888

Agilent shall not be liable for errors potentially contained herein
or for incidental or consequential damages in connection with the
furnishing, performance, or use of this material.

Information, descriptions, and technical specifications in this
publication are subject to change without notice.

© Agilent Technologies, Inc. 2024
Published in USA, August, 2024
5994-7734EN