

Purelab® Chorus 1 for HPLC

**Ultrapure water.
Best practices.
Uncompromised results.**



Purelab® Chorus 1 for HPLC

Behind every successful HPLC run is a reagent that rarely gets the spotlight: water. It's used at every stage of your workflow, at volumes billions of times greater than your analytes.

The purity of that water directly shapes the quality of your data. [Purelab Chorus 1](#) takes care of the first challenge, delivering consistent 18.2 MΩ.cm ultrapure water. But the journey from purifier to instrument is where purity is most at risk.



WHY IT MATTERS

Your most-used HPLC reagent



Eluents & buffers

Water is the primary solvent in reversed-phase HPLC. Contaminants go directly through the column and onto the detector.



Instrument maintenance

Particulates and organics in wash and conditioning water cause mechanical wear and shortened component life.



Standards & blanks

Impurities in water used to prepare standards, calibrants, and blanks are indistinguishable from your analytes.



Washing & rinsing

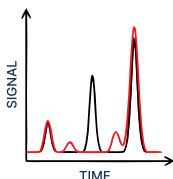
Residual contaminants on glassware, vessels, and pipework are carried into subsequent preparations.



Sample prep & dilution

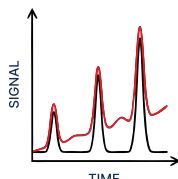
Impurities introduced during dissolving, extracting, or diluting carry through the entire analytical process.

Water quality has a direct impact on HPLC performance



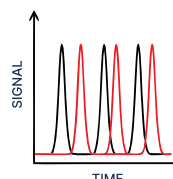
Ghost peaks

Organic contaminants concentrate on the column and elute as false peaks during gradient runs.



Baseline drift

Impurities raise background signal, reducing sensitivity and complicating integration.



Retention time shift

Ionic contamination alters mobile phase chemistry, shifting selectivity and reproducibility.

Purelab Chorus 1

Assured purity for HPLC

Consistently delivering 18.2 MΩ.cm (type I/I+) ultrapure water, [Purelab Chorus 1](#) supports your most sensitive analytical and life science applications.



- ✓ **Real-time total organic carbon (TOC) monitoring** continuously verifies organic purity, providing complete confidence in water quality
- ✓ **Advanced PureSure deionization** ensures consistent ionic purity, maximizing consumable lifespan and minimizing downtime
- ✓ **Integrated filtration** removes endotoxins, proteins, nucleases, and particulates at source, with less frequent maintenance to save time and reduce cost
- ✓ **Fully recirculating system** continuously cycles water through the reservoir, maintaining microbial purity and guaranteeing consistent quality at the point of use
- ✓ **Digital data capture** via USB supports compliance documentation, system performance validation, and software updates
- ✓ **Mercury-free technology** is optionally available to reduce environmentally damaging waste and service frequency

YOUR PART IN THE PROCESS

Protecting purity beyond the purifier

Contamination is most common after dispense from the purifier. Understanding where purity is at risk helps you protect it.

Air exposure

Ultrapure water exposed to air rapidly absorbs CO₂, altering ionic strength and directly affecting HPLC retention times.

- 💡 **Use freshly dispensed water and minimize exposure time before analysis.**

Storage & tubing

Organic contaminants may leach from PVC tubing and unsuitable containers into ultrapure water, appearing as ghost peaks in HPLC.

- 💡 **Use appropriate materials such as PTFE or borosilicate glass and avoid prolonged storage.**

End users

Gloves, cosmetics, and other personal products can introduce organic and particulate contamination during handling.

- 💡 **Wear clean, powder-free gloves and avoid contact between hands and vessel openings.**



Curious how Purelab Chorus 1 could improve your HPLC workflow?

[Request a demo](#) and experience Purelab Chorus 1 in your own workflow.

Dedicated to discovery

80+ years of laboratory water expertise. Trusted in 130+ countries. Backed by global service, environmentally responsible design, and partnerships with leading instrument manufacturers.

elgalabwater.com





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