

ONE PURIFICATION
SOLUTIONS PROVIDER,
ENDLESS POSSIBILITIES
FOR YOUR LAB.

Single solutions provider for every scale

HPLC and new SFC systems

Leading green chemistry, efficiency,
and cost savings



Waters

THE SCIENCE OF WHAT'S POSSIBLE.™



Whether you want a greener purification laboratory or more choices in instrumentation and capabilities, Waters now has **the most comprehensive purification solutions** on the market.

Empower-based HPLC purification system >



Analytical to Semi Preparative-Scale HPLC Purification

- For occasional or on-demand purification requirements
- Flexible injection capabilities with manual and automated injection
- Flexible solvent delivery capabilities with flow rates up to 300 mL/min
- Multiple system control options including Empower™ and MassLynx™ Software's FractionLynx™ Application Manager

You told us that purification needed to be more accessible to your laboratory. Empower Software, the most popular chromatography data software platform in the industry, is able to add fraction collection to its list of capabilities. Now any Empower-enabled laboratory can perform purification.

Mass-directed HPLC purification system >



Semi Preparative to Preparative-Scale HPLC Purification

- When purification is a dedicated function in the laboratory
- Fully automated UV- or mass-directed purification
- MassLynx Software for high-throughput, open access environments with Open Access and AutoPurify™
- Apply advanced techniques such as at-column dilution, scaling from analytical UPLC® to preparative HPLC

Waters' advanced HPLC-based solutions make purification both highly accessible and available to satisfy diverse staffing needs. With Open Access software, chemists can walk up to a system, enter their sample, and have results delivered to their desktop, while an administrator monitors the system remotely. AutoPurify, a feature of FractionLynx Application Manager, further automates the process, from initial analytical screening, through purification, to the analysis of the collected fractions.



Purification columns with OBD Technology.

Your needs are simple – and they're complex. Your needs are growing – and they're changing. No matter your challenge, Waters has precisely the purification system you need.

Waters is the laboratory technology leader that first brought mass-directed purification to the commercial market, and Waters is once again first to bring a single-vendor solution that encompasses the entire purification range.

Waters' robust solutions are uniquely flexible and scalable, from high-throughput fraction collection of hundreds of samples, to simple systems for purifying just a handful of samples a day. From HPLC to the newest Supercritical Fluid Chromatography (SFC) innovations, Waters systems are designed to grow and adapt to your needs.

Our full range of Waters patented Optimum Bed Density (OBD™) Columns, including state-of-the-art Viridis™ SFC Column Technology, delivers consistent column-to-column performance, unmatched lifetimes, and accurate scalability. Which means that you'll be able to streamline laboratory processes, lower costs, and advance more sustainable laboratory operations.

All this plus world-class service and worldwide support from the only company you can turn to for all your purification needs: Waters.

“SFC is a really active area where there is a lot of focus on improving the technology, and Waters is a key player... The idea has always been to **create a laboratory where the applications feed off of each other**, where there's an integration between the individual pieces of instrumentation to answer the larger chemical questions.”

JEFF KIPLINGER, Ph.D.
President, **America Discovery Services, Inc.**

Mass-directed SFC purification system >



Semi Preparative to Preparative-Scale SFC Purification

- Where eco-friendly is an important consideration to high-throughput purification capabilities
- Fully automated UV- or mass-directed purification
- Reduced fraction drydown time increases throughput
- Intelligent instrument control meets demanding fraction collection workflow needs with MassLynx Software's FractionLynx Application Manager

Purification scientists around the globe are excited by the latest advancements in SFC that are now backed by the powerful support of Waters. Because SFC Technology uses CO₂ as its main solvent, it is a critically important solution for prep laboratories that want to be more green: less solvent to buy; less to dispose of. And SFC means much less time and money spent on both. Which is good for science, and good for the world we live in.

Preparative-scale SFC purification system >



Preparative-Scale SFC Purification

- Where the entire laboratory is dedicated to bulk scale purification up to kilogram scale operations, striving for dramatically reduced solvent costs and increased throughput with SFC – up to 90%
- For labs with sophisticated purification requirements that want or have expertise in SFC
- Purifying chiral compounds on any scale
- Managing variable capacities under a common software platform, SuperChrom™/ChromScope™

Waters SFC systems are the performance leader when separating and purifying chiral compounds and natural products in bulk quantities, with higher efficiencies per unit time. When faster and more cost-effective means sustainable business operations, SFC is the purification technique that makes the difference.

Whether you're purifying a few milligrams or several kilograms, Waters has just the right system to get the job done with ease. Visit www.waters.com/prep to find out more.

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