Waters

Do you face these problems when analyzing proteins?

- Lack of reproducibility
- Imprecise separation techniques
- Incomplete protein sequence coverage
- Lack of trained laboratory personnel

Gaining insights into protein complexes or proteomic samples requires significant reductions of sample complexity and dynamic range. 2D gel electrophoresis is not capable of meeting this challenge. In addition to their substantial manual labor requirement, 2D gels lack the dynamic range, broad protein specificity and day to day reproducibility required for robust analysis of complex protein mixtures. Waters now offers an automated, reproducible alternative to this electrophoretic technique with the introduction of the Alliance® Bioseparations System.

Alliance Systems. Reproducibility that can't be copied.

An extension of the highly-successful family of Alliance® brand systems, the Alliance Bioseparations System is a high-pressure, high-resolution HPLC system for the fractionation and analysis of complex biomolecule mixtures. The heart of the Alliance Bioseparations System is the new Waters 2796 Bioseparations Module. Designed for robust operation under the harsh salt and pH conditions typical of bioseparations, it features a titanium and PEEK flowpath. The system's high pressure capability also makes it ideal for protein purification, peptide mapping and nucleic acid analysis. The Alliance System automates column switching, flow diversion and fraction management to support comprehensive multidimensional separation methods. In addition to the Waters 2796, the Alliance 2D Bioseparations System includes the Waters 1525µ Binary HPLC pump for managing second dimension gradient separations and high-resolution BioSuite™ and Symmetry 300™ columns. Masslynx™ software with the Fractionlynx™ Application Manager provides easy-to-program system control and fraction tracking. You can configure the Alliance Bioseparations System to collect fractions into collection tubes or microtiter plates. Or you can interface directly to a Waters Micromass® TOF mass spectrometer.

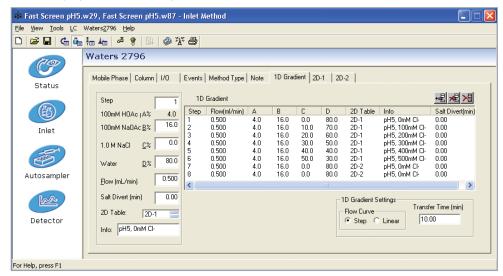


MassLynx™ software makes answers easier to find.

MassLynx 4.0 software is the market-leading, high-performance data platform of the Alliance Bioseparations System. It enables single workstation control for single or multidimensional chromatographic methods, mass spectral acquisition and real-time monitoring of solvent composition, pH, conductivity, valve position, system pressure and column temperature. FractionLynx™ and OpenLynx™, the easy-to-use and learn Applications Managers that run with MassLynx, effortlessly track samples, fractions and all associated data and present the information in customizable and easy-to-understand formats. These combined capabilities convert your samples not only into data but into useful knowledge as well.

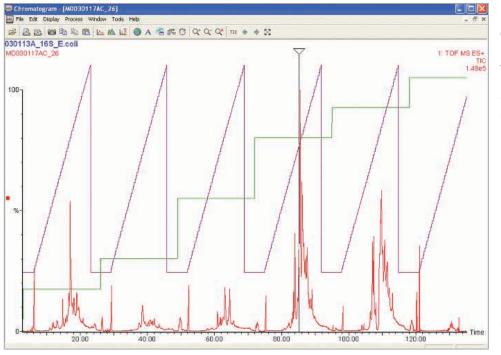


MassLynx software makes programming single and multidimensional chromatographic methods easy.



This MassLynx™ software screen illustrates how the simple user interface controls an eight-step multidimensional AutoBlend ion exchange/reversed phase separation. You can select one of up to ten custom 2nd dimension gradients for each step while the software automates all required valves, including salt diversion steps needed for online mass analysis.

2 - Dimensional HPLC (IEX/RP) analysis of an E.coli cytosolic fraction.



This separation of a typical proteomic sample demonstrates the ability of the Alliance 2D Bioseparations System to resolve and characterize complicated cellular fractions.

1st dimension IEX step gradient

2nd dimension reversed phase gradient

TIC trace

System: Waters Alliance Bioseparations System coupled to a Micromass® LCT TOF-MS.

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BioSuite™ HPLC Columns. Designed specifically for bioseparations, Waters' line of BioSuite HPLC columns deliver the resolution and recovery of proteins and peptides proteomic scientists need. Available in ion-exchange, size exclusion, hydrophobic interaction and reversed-phase modes, BioSuite columns are available in analytical as well as "lab

scale" preparative dimensions. BioSuite reversed-phase columns include either a C18 or phenyl functional group coupled to a porous polymeric matrix and complement Waters' line of Symmetry®, Symmetry300™, Atlantis® dC18 and XTerra® reversed-phase columns.

World-Renowned Support and Services

Waters Connections® provides the solutions you need to maintain maximum uptime across your Waters systems.

- Analytical Instrumentation and Software Services include Total Assurance Plans that
 extend and enhance the original warranty you receive when you buy a Waters product.
 These plans minimize the level of insurance investment and deliver the value you need to
 avoid costly and time-consuming system downtime.
- Connections® Compliance Services provide you with timely and cost-efficient solutions
 for your regulatory compliance challenges. You can use our Compliance Services to
 effectively train and certify personnel in equipment and regulatory requirements for
 cGMP/GLP compliance, significantly reducing operating costs.
- Connections University is the center of our Educational Services, providing extensive HPLC and LC/MS training and education at your site, at our corporate headquarters or at our local offices around the world.

Representatives of our global Customer Assurance Organization, trained and certified in all our products and current in HPLC and LC/MS applications, are available in person, on the phone, via FAX or at www.waters.com to answer questions and provide you with around-the-clock support and information services.









