

Series 275 HRes PDA LC System

Transition to Fast-LC with confidence



Increasing throughput with HRes™ fast liquid chromatography is driving productivity improvements in more and more LC labs worldwide. The PerkinElmer® Series 275 HRes Photo Diode Array (PDA) LC System makes method transfer and method development easier. Multi-wavelength PDA spectral data acquisition increases your confidence by improving peak identification and peak purity determination.

Develop, qualify or evaluate your fast-LC methods by getting richer information about each peak in your chromatograms. High resolution UV/Vis spectra provide an extra dimension of knowledge about your samples and your methods. Combining the chromatographic throughput improvements of the Series 275 binary Micro Pumps with the excellent signal-to-noise and linearity of the Series 275 PDA Detector, the Series 275 HRes PDA LC System accelerates productivity and performance to drive your business success.

Key Benefits

- ▶ Multi-wavelength spectral acquisition improves peak identification and purity determination
- ▶ Increased confidence in method development and transfer to fast-LC
- ▶ Improved chromatographic resolution and throughput with higher-pressure operating range (500-10,000 psi)
- ▶ Outstanding linearity and repeatability even at small injection volumes and high operating pressures
- ▶ “Best-in-class” cycle time with exceptionally low carryover drives increased throughput
- ▶ Extremely low dispersion for maximum resolving power

The Series 275 HRes PDA LC System

in method development and transfer to fast-LC

Accelerating productivity and performance

Precisely designed and configured to minimize system-delay volume, optimize operating pressure and flow, and maximize detector response, the Series 275 HRes LC System is compatible with sub-3 μm particle-size high-resolution columns for dramatically increased chromatographic throughput. Our Brownlee™ HRes LC Columns, available in a wide variety of stationary phases and dimensions, can be operated over a wide range of flow rates and operating pressures. This allows you to select the throughput and resolution best suited for your specific application needs.

Driving business success

The Series 275 HRes PDA LC System delivers best-in-class performance at an exceptionally attractive price point, and low cost of ownership. It makes fast-LC practical for organizations where productivity and quality-assurance are key success factors. Controlled by award-winning TotalChrom® CDS Software, and built upon PerkinElmer's Series 200 LC platform, the Series 275 HRes PDA System is a familiar, seamless plug-in to existing TotalChrom CDS installations, helping get your lab up and running, and realizing the benefits of fast-LC even sooner.

Everything you need is preconfigured into a single, integrated system

Series 275 Binary Micro Pump

The Series 275 HRes Binary Micro Pumps are built for 24/7 routine operation and low preventative-maintenance costs. A platform proven at tens of thousands of

installations worldwide, PerkinElmer's micro pump technology is widely recognized throughout the industry for its ruggedness and reliability. The Series 275 Binary Micro Pump builds upon this very platform, now embodying numerous advancements in chromatographic science. Operating up to 10,000 psi, the Series 275 Binary Micro Pump delivers optimum resolution and speed with sub-3 μm columns, while providing efficient high-pressure solvent gradient mixing.

Series 200 Vacuum Degasser

The Series 200 Vacuum Degasser, configured as a standard component of the system, provides convenient degassing to assure baseline-signal stability.

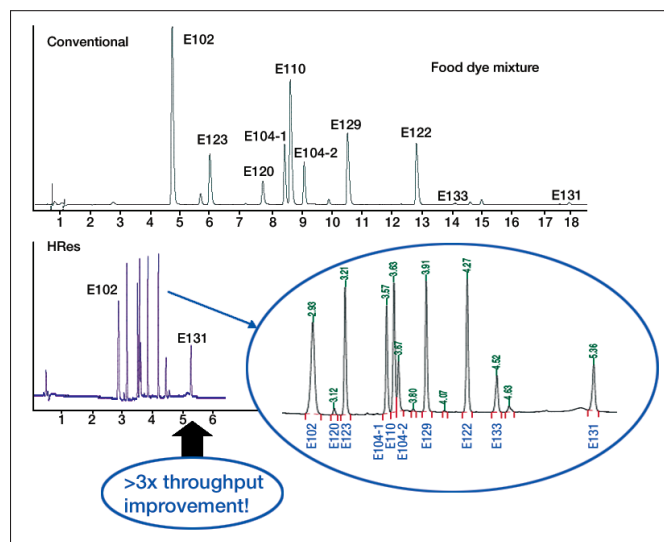


Figure 1. Significant improvement in throughput is possible using the Series 275 HRes PDA LC System.

Series 275 Autosampler

The Series 275 Autosampler delivers best-in-class cycle time and low carryover with exceptional precision and linearity. With flexible injection modes, derivatization/serial dilution capability, and Peltier cooling and heating, this flexible autosampler manages your sample load reproducibly and efficiently. The Series 275 Autosampler is designed for easy access to the injector port making routine cleaning and loop changing fast and easy. Built-in missing-vial and missing-tray sensors can save enormous time and regulatory compliance costs by eliminating rework or data integrity problems that might arise from simple operator error.

Series 200 Column Oven

Convenient high-pressure finger-tight fittings – optimized to maintain the rigorous low dead-volume requirements of fast-LC technology – efficiently connect the sample injector to the column, assuring convenient column exchange with minimum peak dispersion. The Series 200 Column Oven provides precise thermal stability and exceptional retention-time reproducibility.

Series 275 Photo Diode Array (PDA) Detector

The Series 275 PDA Detector is one of the most flexible detectors used in LC today. Its excellent signal-to-noise and outstanding linearity are ideally suited for high accuracy quantitation. Its wide wavelength range, high efficiency HRes flow cell, and simultaneous deuterium

and tungsten lamps assure that each HRes fast-LC peak is fully characterized, providing the rich information content necessary for confident fast-LC method development and execution.

Powerful IRIS™ Spectral Processing Software provides an extra dimension of information about your sample and methods. It offers a full suite of spectral analysis functionality in an intuitive user interface, all protected under a fully 21 CFR Part 11 compliant architecture.

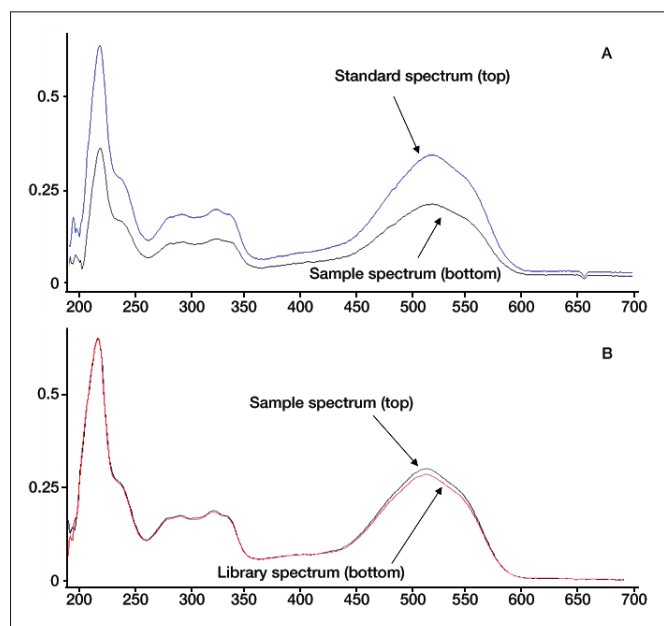


Figure 2. Spectral comparison and library searching with the Series 275 HRes PDA LC System provides confirmation of peak identity, assuring confidence in results and in fast-LC method development and transfer.

PerkinElmer – a trusted partner for liquid chromatography

With over 30 years experience developing liquid chromatography solutions, PerkinElmer is a leading provider of scientific instruments, consumables and services to environmental, biomedical, pharmaceutical, energy, food/agriculture, chemical, forensics and general industrial markets worldwide. We provide integrated solutions from sample handling and analysis to communication of test results. With over 70 years experience providing solutions for the laboratory instrument marketplace and over 1000 factory-trained professionals serving more than 125 countries

worldwide, PerkinElmer is your most trusted single source for instrument care and repair, validation services, software and hardware upgrades, training and more.

Our award-winning integrated chromatography data systems have set the standard for workstation and client-server compliant solutions for regulated or non-regulated laboratories. With software designed, developed and supported by PerkinElmer, you can be assured of an integrated solution to support your business needs – for the long term.

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