

Series 275 HRes UV/Vis LC System

Flexibility to expand your separation capabilities



Isn't it time you consider HRes™ fast liquid chromatography to expand your separation capabilities while increasing your sample throughput? The flexible PerkinElmer® Series 275 HRes LC System leverages small particle-size column technology at ultra-high pressures, giving you greater flexibility to develop methods across a wider operating range.

Improve your efficiency, easily. The Series 275 HRes LC System enables today's LC laboratories to achieve higher levels of performance and throughput to meet escalating scientific and business challenges. Your lab is on the line to do it better, and do it faster. Whether you are evaluating candidate compounds, controlling product quality, assuring consumer safety or assessing environmental impact, the Series 275 HRes LC System has the power and the flexibility to accelerate your productivity.

Key Benefits

- ▶ Greater operating flexibility to optimize method development
- ▶ Improved 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
- ▶ High-speed data capture assures excellent peak fidelity at high sample throughput
- ▶ 21 CFR Part 11 architecture allows operation in a regulated environment

Preconfigured integrated system

for both HRes and con

HRes LC made practical

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 improved performance. 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.

Even though your method development options are greatly increased with the Series 275 HRes LC System, you don't have to abandon your valuable tried-and-true methods developed over all these years. The flexibility of the System allows you to run all your HRes and your existing conventional methods on a single LC system! A wide variety of mixers and detector flow cells are available to address both HRes and conventional applications.

Expanding upon a proven platform

The Series 275 HRes UV/Vis LC System makes new technology and performance breakthroughs available in a flexible, affordable and easy-to-use package. Everything you need is preconfigured into a single, integrated system.

Series 275 Binary Micro Pump

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.

Series 275 Autosampler

The Series 275 Autosampler delivers best-in-class cycle time and low carryover with exceptional precision and linearity. With derivatization/serial dilution capability, and Peltier cooling and heating, this flexible autosampler manages your sample load reproducibly and efficiently. A wide range of injection modes, including μL -pickup mode, assures that even low-volume injections can be achieved with high repeatability.

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 200 UV/Vis Detector

The Series 200 Programmable UV/Vis Absorbance Detector is one of the most popular detectors used in LC today. Combining a high-efficiency flow cell and high data-acquisition rate, this detector captures Fast-LC peaks with high resolution and sensitivity. The detector employs a dual-beam optical design for high sensitivity and supports Deuterium (D_2) and Tungsten source lamps – offering true visible wavelength performance.

Conventional LC applications

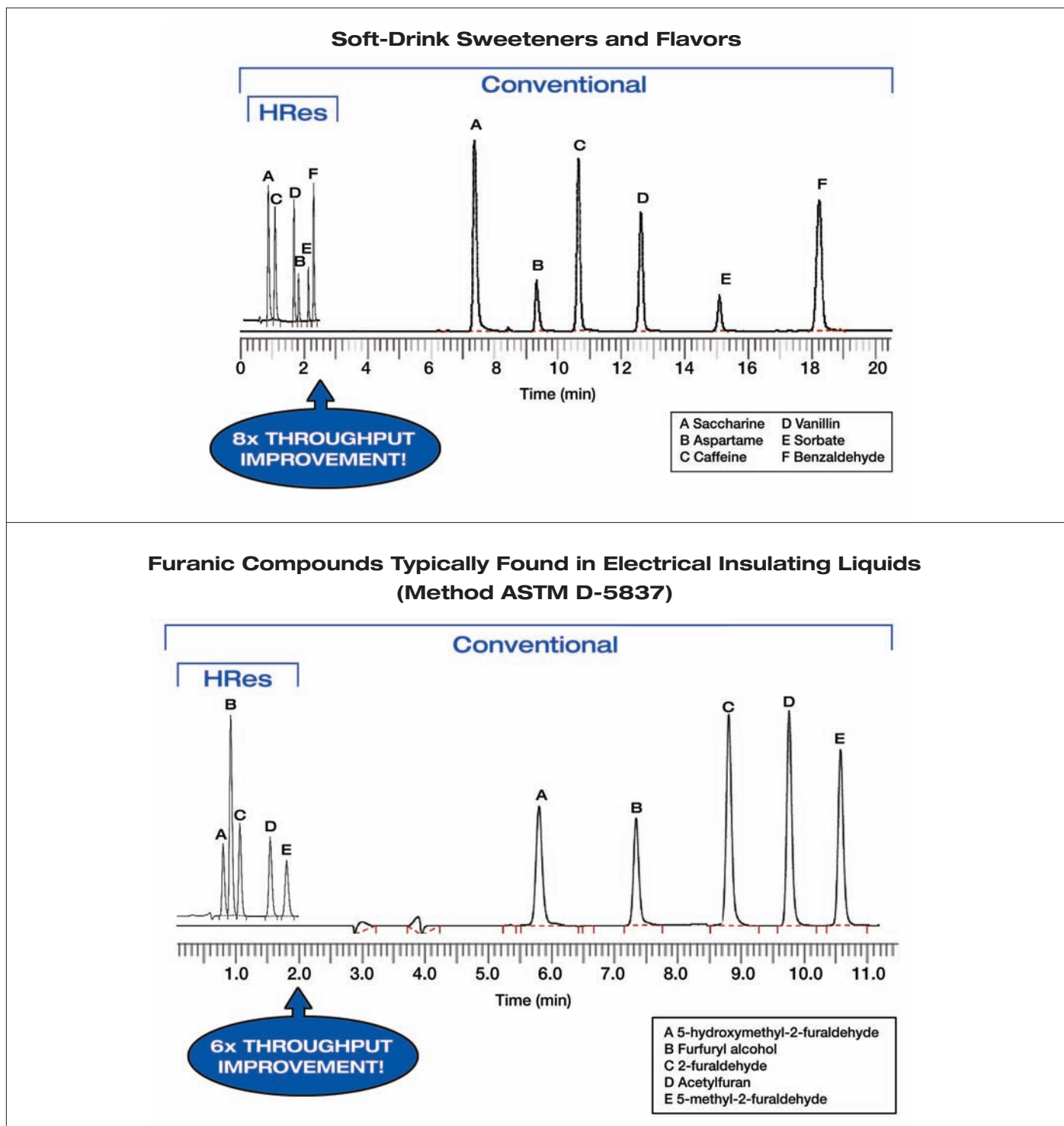


Figure 1. Increase your productivity – the Series 275 HRes UV/Vis LC System can reduce retention times and increase sample throughput dramatically.

PerkinElmer – a trusted partner for liquid chromatography

With over 30 years of 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 more than 70 years experience 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.

PerkinElmer, Inc.
940 Winter Street
Waltham, MA 02451 USA
Phone: (800) 762-4000 or
(+1) 203-925-4602
www.perkinelmer.com



For a complete listing of our global offices, visit www.perkinelmer.com/lasoffices

©2008 PerkinElmer, Inc. All rights reserved. The PerkinElmer logo and design are registered trademarks of PerkinElmer, Inc. Brownlee and HRes are trademarks and PerkinElmer is a registered trademark of PerkinElmer, Inc. or its subsidiaries, in the United States and other countries. All other trademarks not owned by PerkinElmer, Inc. or its subsidiaries that are depicted herein are the property of their respective owners. PerkinElmer reserves the right to change this document at any time without notice and disclaims liability for editorial, pictorial or typographical errors.