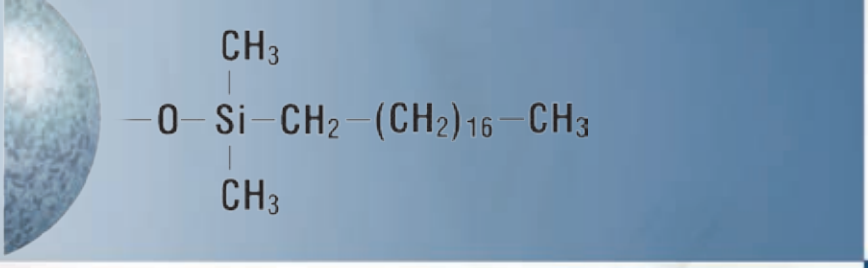


Thermo Scientific Dionex UltiMate 3000 Basic Automated Systems

Compact Systems

everyday workhorse

Reliable • Versatile • Cost-effective

UHPLC+ focused

Thermo SCIENTIFIC

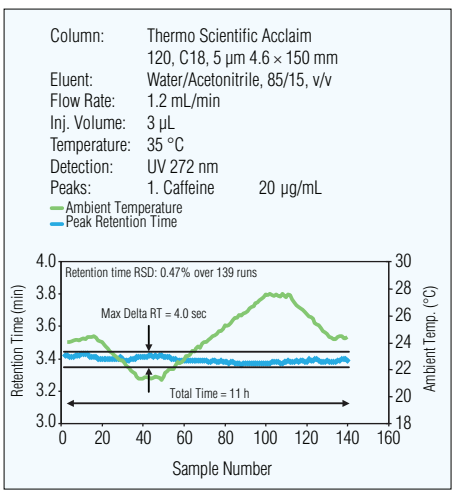
Ultrahigh performance **without compromise**

Thermo Scientific Dionex UltiMate 3000 Basic Automated systems provide rugged performance in an economical yet flexible package. Like all UltiMate™ 3000 systems, they are UHPLC compatible, establishing a new standard in conventional LC. The UltiMate 3000 Basic Automated systems combine an autosampler and column compartment in one module for cost-efficient automation, tailored to your applications. The system and software easily adapt to new challenges with additional UltiMate 3000 modules. The system adjusts to fit your needs without stretching your budget.

Optimized Balance Between Performance and Cost

The Basic Automated system is optimized for reliability and ease-of-use for routine LC applications in the analytical flow range. All systems support pressures of up to 620 bar (9,000 psi) at flow rates of up to 10 mL/min, and detector data collection rates up to 100 Hz. The Thermo Scientific Dionex ACC-3000 Autosampler Column Compartment is the heart of the system. Its unique instrument design combines a rugged sample injection principle with a powerful column oven. This design:

- Minimizes the number of wear parts and critical connections
- Provides a cost-saving alternative to separate samplers and column compartments
- Offers a lower overall system height compared to conventional LC systems
- Delivers a time-saving alternative to manual injections



The column compartment of the ACC-3000 allows robust peak identification by retention time, even at fluctuating ambient conditions.

Reliability—a Must for Routine LC

For reliable sample analysis, every day without disruptions, Thermo Fisher Scientific places the highest priority on the reliability, longevity, and quality of each part and sub-assembly.

- A state-of-the-art on-line vacuum degasser enhances the reliability of proportioning, pumping, and UV signal detection
- Improved flow path design and manufacturing techniques ensure rapid clearance of any bubbles that may be drawn from the pump heads
- Second-generation floating pistons and patented active rear-seal washing prolong piston seal life
- Temperature-controlled lamp environment extends UV lamp life beyond 2000 hours
- Flow cells are tested up to 100 bar for leak-free operation
- All modules support performance checks with pre-defined diagnostic tests within minutes.

ACC-3000 Autosampler Column Compartment. An integrated column oven provides fast and stable column thermostatting between 5 °C above ambient temperature and 50 °C.

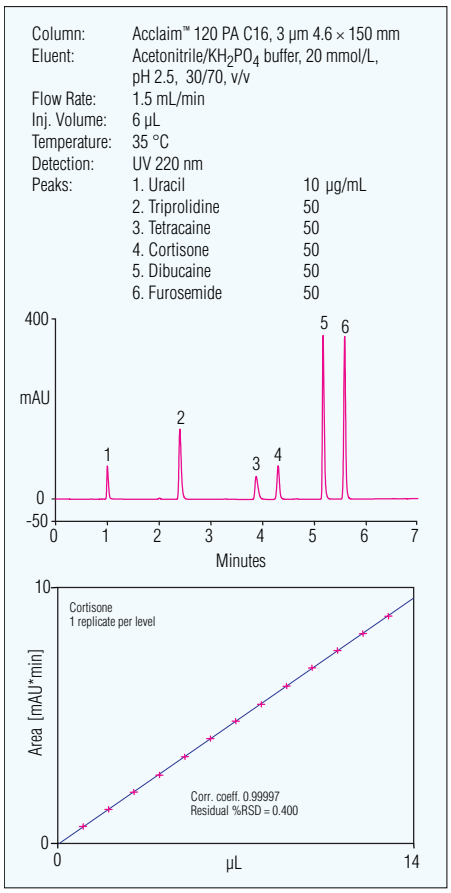
Enter the future without stretching your budget

LC Made Easy

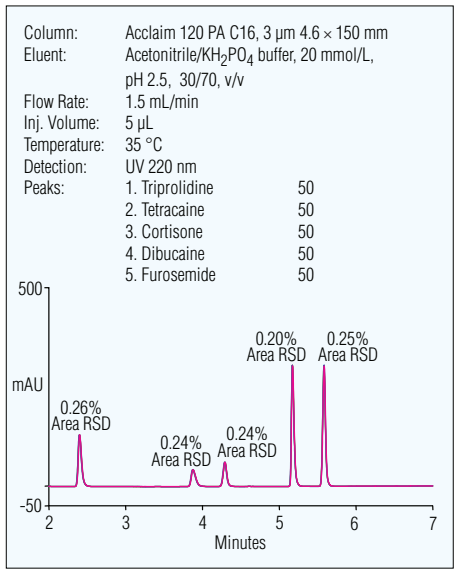
The UltiMate 3000 systems, combined with Thermo Scientific Dionex Chromeleon Chromatography Data System (CDS) software provides an intuitive platform for your daily laboratory work. Thermo Scientific Dionex Viper fingertight fittings ensure perfect fluidic connections and easy column changes. All wear parts are easily accesible for straightforward maintenance. The most important instrument parameters are displayed on bright LCDs and are clearly visible—even from a distance.

Automated IQ/OQ/PQ routines minimize time for regular qualification tasks. A SmartStartup™ function autonomously equilibrates your instrument before you arrive in the lab. The system can even start to analyze samples automatically upon meeting user-definable equilibration and performance criteria. The software creates comprehensible reports and enables rapid data processing while supporting full compliance with GLP, cGMP, and 21 CFR Part 11.

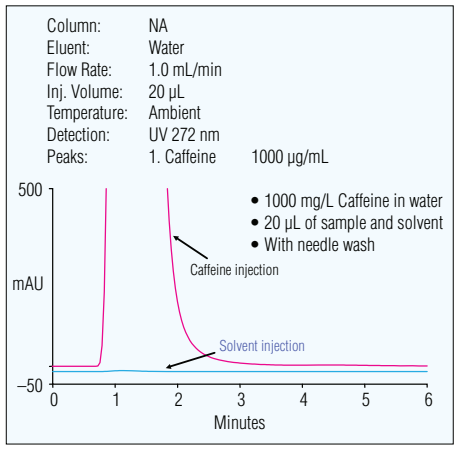
The UltiMate 3000 Basic Automated LC systems offers a robust and reliable solution for routine analytical work. Low initial investment and minimal cost of ownership make best use of your budget.



Injector linearity example with partial loop injections (1–13 µL).



Overlay of six consecutive injections with 5 µL sample volume, using the ACC-3000 with pulled loop technique and UV detection at 220 nm. The typical peak area RSD is <0.3% in partial loop mode.



Typical ACC-3000 carryover example using caffeine.

The revolutionary Viper™ fingertight fitting system seals at the tip of the capillary and provides a perfect fit every time.

Enjoy Industry-Leading Support

Thermo Fisher Scientific Customer Support Centers are located in the United States, Europe, and Asia. These state-of-the-art laboratories are equipped with the full line of Thermo Scientific LC instrumentation and software capabilities. Support Centers provide accessible locations for advanced training and enhanced application development capabilities. Users can visit these laboratories or sign up to learn new skills in addressing challenging applications, receive training and support, and discover new, innovative HPLC and IC solutions.

www.thermoscientific.com/dionex

Thermo Scientific Dionex products are designed, developed, and manufactured under an ISO 9001 Quality System.

Australia +61 3 9757 4486
Austria +43 1 616 51 25
Benelux +31 20 683 9768
+32 3 353 42 94
Brazil +55 11 3731 5140
China +852 2428 3282
Denmark +45 36 36 90 90
France +33 1 39 30 01 10
Germany +49 6126 991 0
India +91 22 2764 2735
Ireland +353 1 644 0064
Italy +39 02 51 62 1267
Japan +81 6 6885 1213
Korea +82 2 3420 8600
Singapore +65 6289 1190
Sweden +46 8 473 3380
Switzerland +41 62 205 9966
Taiwan +886 2 8751 6655
UK +44 1276 691722
USA and Canada +847 295 7500

Thermo SCIENTIFIC
Part of Thermo Fisher Scientific

BR70152_E 08/12S