



UltiMate 3000 Basic Automated Systems

Giving you more.



Now sold under the
Thermo Scientific brand

Thermo
SCIENTIFIC



Passion. Power. Productivity.

Ultrahigh Performance

Enter the future without stretching your budget

The UltiMate® 3000 Basic Automated System provides rugged performance in an economical yet flexible package. Like all UltiMate 3000 systems, it is UHPLC compatible, establishing a new standard in conventional LC. The UltiMate 3000 Basic Automated system combines an autosampler and column compartment in one module for cost-efficient automation. Its modular design lets you create a Basic Automated LC system 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 LC system is optimized for reliability and ease-of-use for routine LC applications in the analytical flow range. The 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:

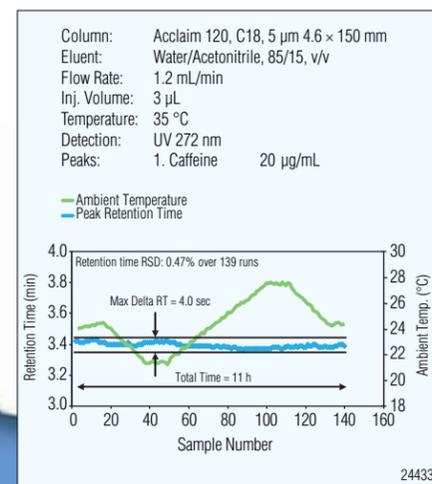
- Minimizes the number of wear parts and critical connections
- Delivers 620 bar maximum pressure and 100 Hz data rate for UHPLC compatibility
- Provides a cost-saving alternative to separate samplers and column compartments
- Offers a lower overall system height compared to conventional LC systems
- Delivers a time-saving alternative to manual injections

Reliability—a Must for Routine LC

For reliable sample analysis, every day without disruptions, Dionex 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

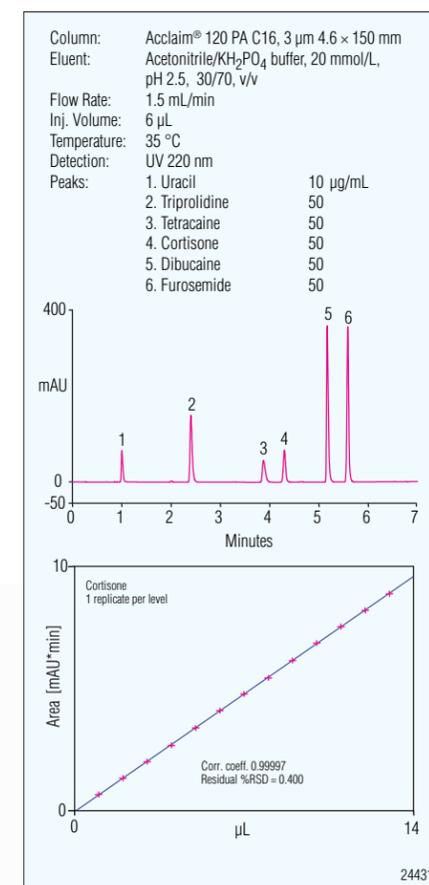
All modules support performance checks with pre-defined diagnostic tests within minutes. Dionex makes HPLC reliable.



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

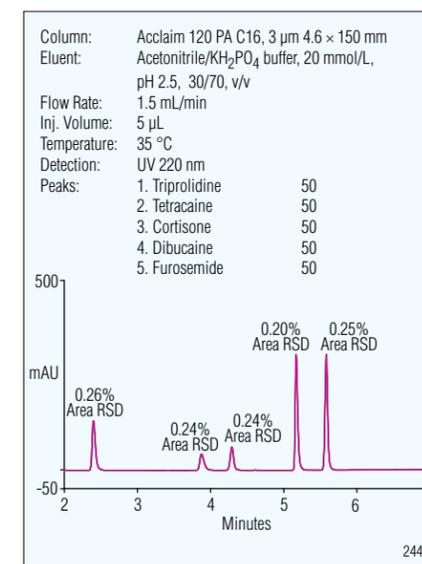
LC Made Easy

The UltiMate 3000 system, combined with the Chromeleon® Chromatography Management System, provides an intuitive platform for your daily laboratory work. Viper™ fingertight fittings ensure perfect fluidic connections and easy column changes. All wear parts are easily accessible for straightforward maintenance. The most important instrument parameters are displayed on bright LCDs and are clearly visible—even from a distance.



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

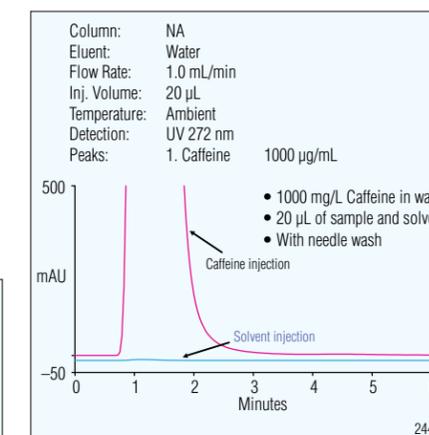
Automated IQ/OQ/PQ routines minimize time for regular qualification tasks. A SmartStartup function autonomously equilibrates your instrument before you arrive in the lab. The system can even start to analyze samples automatically upon meeting user-definable equilibration and performance criteria. The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



Overlay of six consecutive injections with 5 μ L 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.



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



Typical ACC-3000 carry-over example using caffeine.



ACC-3000 Autosampler Column Compartment. An integrated column oven provides fast and stable column thermostating between 5 $^{\circ}$ C above ambient temperature and 50 $^{\circ}$ C.

Enjoy Industry-Leading Support

Dionex 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 Dionex 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.

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LPN 1972-02 7M 11/10 Printed in U.S.A.