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CMD: Dionex Products

USP WCDG & AOAC-SCS Regulatory & Compliance
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Thermo Fisher Scientific and Dionex: A Winning Combination



Dionex is now a part of the Thermo Scientific brand, bringing leading capabilities in ion chromatography, liquid chromatography, and sample preparation to our organization, and creating exciting new possibilities for scientific analysis.

More Technologies for Serving Science

Mass Spectrometry



Chromatography



Molecular Spectroscopy



Trace Elemental Analysis



Leading scientific performance across core analytical platforms

HPLC/UHPLC Capabilities

UHPLC⁺ focused

Basic Automated



- Highly economic and reliable
- 620 bar UHPLC compatible
- Flow rates up to 10 mL/min
- 100 Hz detector range
- Modular flexibility

Standard



- 3rd generation modules
- 620 bar UHPLC compatible
- Flow rates up to 10 mL/min
- Oven temp. 5–80 °C
- 100 Hz DAD, MWD, VWD, FLD, CAD
- Highest flexibility

x2 Dual LC



- Two systems in one
- 620 bar UHPLC compatible
- Flow rates up to 10 mL/min
- Oven temp. 5–80 °C
- Automated Application Switching
- Parallel and Tandem LC
- Online SPE-LC
- Automated method scouting
- Turn key Viper kits for ease of use

RSLC



- Binary and Quaternary UHPLC systems
- 1000 bar up to 5 mL/min
- 800 bar up to 8 mL/min
- Oven temp. 5–110 °C
- 200 Hz DAD, MWD, VWD, FLD
- Improved sub 2- μ m particle column compatibility
- Ultrafast/ultra resolution system

x2 Dual RSLC



- x2 Dual UHPLC System
- Two systems in one
- 1000 bar up to 5 mL/min
- 800 bar up to 8 mL/min
- Oven temp. 5–110 °C
- 200 Hz DAD, MWD, VWD, FLD
- Parallel and Tandem LC
- Online SPE-LC
- Automated method scouting
- Offline 2D-UHPLC
- Turn key Viper™ kits for ease of use

RSLCnano



- UHPLC system for Nano/Cap/Micro range
- 20 nL/min – 50 μ L/min up to 800 bar
- Continuous direct flow
- New standard in retention time precision
- Snap-in valves
- nanoViper™ fitting system for easy operation



Corona CAD: What's in your sample?



- Excellent Sensitivity
 - Detects low nanograms on column
- More Consistent Response
 - Response independent of chemical structure
 - Excellent for relative measurement when standards are unavailable, e.g. impurity/degradants
- Wide Dynamic Range
 - 4 orders of magnitude
 - ng to ug
- Broad Applicability
 - Analyzes any non-volatile compound
- Superior Reproducibility
 - RSDs typically in the 2% range

Chromeleon CDMS- Tools for 21 CFR Part 11



- Operational Simplicity
- Enterprise Solution
- Advanced Reporting and Integration tools
- No Re-processing of Data

- Secure operation
 - Comprehensive user management tools.
 - Fully automated hardware and software qualification.
 - Audit Trails to trace all actions done in the software.
 - History views of objects to track changes and easily revert to prior versions.
 - Electronic signatures for submitting, reviewing and approving sequences.

ASE 350: Automated Solvent Extraction



- ASE is an automated extraction system using a combination of temperature and pressure with standard liquid solvents for extracting organic and inorganic materials from solid and semi-solid samples.

ASE is designed to address the critical needs of the extraction marketplace.

- ■ Significantly reduce the time required
- ■ Reduce the amount of organic solvents used
- ■ Easy to use
- ■ Provide a format for automation
- ■ Provide a low cost per extraction

More Capabilities, New Possibilities



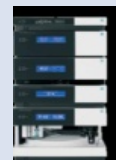
Technologies

GC/GC-MS

LC-MS

IC, ASE

UHPLC



LIMS

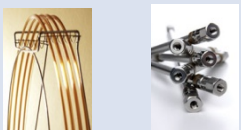


Workstation & Enterprise CDS



350,000 Customers
150 Countries
37,000 Employees

GC & HPLC Columns



Vials, Septa, Fittings



IC & HPLC Columns, Viper Technology fittings



Expertise

Life Sciences & Research



Applied Markets & Routine Testing



Thank you!



ThermoFisher S C I E N T I F I C

The world leader in serving science



Partners in driving value creation