

Solvent Extraction

Solvent extractions that normally require labor-intensive steps are automated and performed in minutes, with reduced solvent consumption and reduced sample handling using Dionex Accelerated Solvent Extraction (ASE®) and AutoTrace® systems.



Accelerated Solvent Extraction (ASE)

Dionex ASE® is a patented technique for the extraction of analytes from solid and semisolid sample matrices using common solvents at elevated temperatures and pressures.

Compared to techniques such as Soxhlet and sonication, ASE generates results in a fraction of the time.

Benefits :

- Extractions for sample sizes 1–100g in minutes
- Dramatic reduction in solvent usage
- Wide range of applications
- Corrosion-resistance components
- Approved for use by the U.S. EPA and CLP Program
- Walk away automation for unattended operation
- Hood-free operation

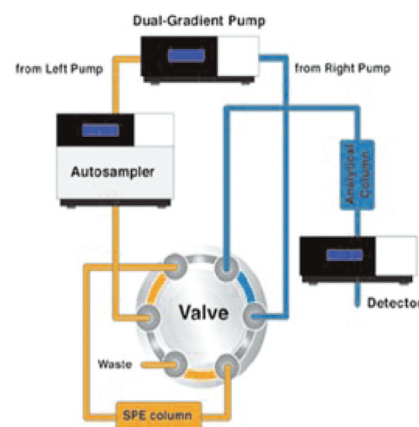


AutoTrace 280 Automated SPE

The Dionex AutoTrace® 280 instrument performs automated solid-phase extractions (SPE) of large-volume liquid samples for organic analysis. Liquid – liquid extractions that normally take hours can be automated using an AutoTrace SPE system.

Benefits:

- Automated extractions for liquid sample sizes of 20mL–20L
- Dramatic reduction in solvent usage and reduced sample handling
- Wide range of applications
- Approved for use by many government agencies
- Compatible with disk or cartridge configurations
- Extraction of 6 channels simultaneously



Automated On-line SPE-LC

A solution kit for the Dionex UltiMate 3000 x2 Dual HPLC systems provides fully automated on-line solid-phase extraction (SPE) for high-sensitivity analysis from even complex matrices. Samples are injected directly onto an SPE column, the matrix is removed, and the enriched analyte transferred to an analytical column.

Benefits:

- Direct injection of untreated samples
- Fast analysis and high reproducibility
- Full automation for unattended operation
- Reduction of health risks
- Highest productivity

Sample Prep Systems

ASE systems are dramatically faster than Soxhlet, sonication, and other extraction methods, and require significantly less solvent and labor. ASE methods are accepted and established in the environmental, pharmaceutical, food, polymer and consumer product industries. ASE methods are accepted and used by government agencies worldwide.



Rocket Evaporator

A revolutionary solvent evaporator for use in laboratories seeking to spend minimal time and effort to process multiple samples for analysis. It can dry or concentrate up to six 450mL flasks, or 18 ASE vials. This enables the user to focus on other tasks, confident that the Rocket will achieve perfect, reproducible results every time.

Benefits:

- Vacuum and centrifugal evaporation for controlled evaporation and minimised sample loss
- ASE and AutoTrace compatible vessels reducing solvent handling
- End point detection
- Superior solvent recovery



IC Sample Preparation Solutions

Products include solutions for IC sample preparation with AutoPrep and Reagent Free Ion Chromatography – Electrolytic Sample Preparation (RFIC-ESP).

AutoPrep automatically prepares calibration curves and performs sample analyses. Unique plumbing configurations and automated valve operations simplifies trace level analysis.

RFIC-ESP systems enable a range of automated sample preparation techniques using proprietary electrolytic devices to reduce cost and provide higher value analyses.

RFIC-ESP devices and techniques can remove cations from an anion sample before analysis using Dionex CR-TC devices, or neutralizing a strongly acidic or basic solution.



Sample Preparation Accessories

The Dionex InGuard™ inline and OnGuard® II offline cartridges remove matrix interferences such as phenolics, metals, cations, anions, or hydrophobic substances encountered in many ion chromatography applications.

OnGuard II Cartridges: Remove matrix interferences such as phenolics, metals, cations, anions, or hydrophobic substances, for better performance in many IC applications.

InGuard Cartridges: This line of sample pretreatment cartridges removes matrix interferences such as cations (including transition metals), anions, or hydrophobic substances encountered in many IC applications.

SolEx™ Solid Phase Extraction Cartridges: Offers a variety of chemistries and sizes to fit your needs.