AutoSPE/Clinical
Automated Solid Phase Extraction

For Pharmaceutical, Biotech & Diagnostics Workflow

- ✓ Simple
- ✓ Versatile
- ✓ Programmable
- ✓ Direct to GC vials
- ✓ Concentrator Interface

Automated Solid Phase Extraction Direct to GV Vials

Key Features:

- Multi-Solvent and Multi-Cartridge Support
- Positive Pressure & Multi-Pump Design
- Intergrated SuperVap™ Concentrator
- Touchscreen with Editor Interface
- Programmable Flowrate & Solvent Volume
- Multi-Cartridge/Column Cleanup Capability
- Closed loop, no Solvent Exposure
- Compact, Maintenance-Free Design

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FMS
Fluid Management Systems

Key Features for Pharmaceutical, Diagnostic & Biotech Applications:

· **Multi-Solvent and Multi-Cartridge Support:** Automates complex protocols using multiple solvents and diverse SPE cartridges and chemistries.

· **Positive Pressure & Multi-Pump Design:** Ensures precise and consistent flow rates across all extraction steps and sample types.

· **Integrated SuperVap™ Concentrator:** Final extracts are automatically transferred and concentrated directly into GC vials—no manual handling.

· **Touchscreen with EzPrep+ Interface:** Simplifies programming and method development with a high-resolution, icon-driven display.

· **Programmable Flowrate & Solvent Volume:** Easily optimize and standardize extraction conditions across multiple sample types.

· **Multi-Column Cleanup Capability:** Supports multi-stage purification using different columns. For example, the EzPrep+ system employs silica, alumina, and carbon columns in series to purify femtogram-level Dioxins from whole blood samples, demonstrating the system's precision and flexibility for trace-level analyte workflows.

Closed, Compact, Maintenance-Free Design: Enhances safety, minimizes footprint, and eliminates need for external PC or software.

Revolutionizing Sample Preparation for Pharma & Biotech

The AutoPrep™/Rx Clinical6 System from FMS, Inc. is engineered to suppor the evolving needs of R&D and production labs in pharmaceuticals, diagnostics, and biotechnology. Equipped with flexible solvent handling, multi-cartridge compatibility, and integrated evaporation, Auto SPE/Rx allows laboratories to automate and scale complex SPE protocols with high precision and throughput. From biomaker isolation to impurity profiling, the system enables the reliable preparation of high-quality extracts ready LC-MS or GC-MS analysis.

Enhanced SPE Workflow

1. Automated Sample Loading:
Load multiple matrices simultaneously with minimal handling.
2. Targeted Extraction:
Program solvent and flow for reproducible analyte recovery.
3. Drying & Clean-Up:
Integrated nitrogen drying ensures consistent, efficient solvent removal.
4. Evaporation with SuperVap™:
Automatically concentrates final extracts into GC vials.
5. Analysis-Ready:
High-purity extracts suitable for LC-MS/MS or GC-MS.

Applications

AutoSPE™/Rx delivers robust, automated sample prep across a wide range of industries and workflows:

- Pharmaceutical R&D: Extract APIs, excipients, impurities, and degradation products.
- Biotech Sample Prep: Purify peptides, proteins, and cell culture supernatants.
- Diagnostic Assay Development: Clean up blood, plasma, and urine samples for biomarker or therapeutic monitoring.
- QC & Regulatory Testing: Streamline validation and batch-release workflows for GMP-compliant environments.

Callout Box

EzPrep+ used for dioxin cleanup from blood with silica, alumina & carbon columns

Specifications

· Sample Capacity: Up to six samples per run.

· Technology: Positive pressure with multi-pump operation

· Evaporation: Save on solvents and reduce labor costs with a fully automated, high-recovery process.

· User Interface: High-resolution touchscreen display

· Cartridge Compatibility: Supports standard SPE and clean-up column formats

Experience the Future of Automated SPE in Pharma and Diagnostics

AutoSPE™/Clinical6 with SuperVap™ sets a new standard for reproducibility, safety, and speed in high-value sample preparation. With unmatched flexibility, you can confidently scale methods from discovery to regulated production.