

AutoSPE™ /DOA Automated Solid Phase Extraction System

Precision, Speed, and Unmatched Efficiency for Drugs of Abuse Testing



Key Features for Drugs of Abuse Testing:

- Positive Pressure and Multi-Pump Design: Uniform flow and pressure ensure precise extractions across all samples.
- Parallel Processing: The system processes six samples simultaneously, enhancing efficiency for high-throughput applications.
- Integrated Evaporation with SuperVap™: Automatically concentrate samples to the desired volume for streamlined and accurate analysis.
- Certified Cartridges: DRA cartridges are certified for low background, high recoveries, and excellent precision.
- Programmable Flowrate and Volume: Ensures consistent and precise results for all analytes.
- User-Friendly Touch Screen: Simplifies operation and minimizes training requirements.

Revolutionizing Drugs of Abuse Testing

The AutoPrep™ DOA Parallel SPE System from FMS, Inc. represents the cutting edge of automated sample preparation. With its advanced positive pressure operation and multi-pump technology, AutoPrep processes up to six samples simultaneously. Extracted drugs are automatically delivered to the SuperVap™ Concentrator, automatically concentrating to the desired volume, eliminating errors and potential contamination during transfer, and ensuring seamless, quick, and reliable DOA analysis.

Designed for laboratories in clinical, forensic, and workplace drug testing, the AutoPrep system delivers precision, scalability, and reliability for a rapidly evolving field.



Why Choose AutoPrep™ DOA for Drugs of Abuse Testing?

- **Unmatched Throughput:** Process six samples in parallel with built-in evaporation capabilities for faster workflows.
- **Seamless Integration:** Automatically transfer extracted samples to the SuperVap™ Concentrator for error-free concentration.
- **Enhanced Sensitivity:** Advanced positive pressure technology reduces matrix effects, optimizing analyte recovery for ultra-sensitive detection.
- **User-Friendly Operation:** Intuitive touch screen interface for effortless setup and monitoring.

Enhanced Workflow for Drugs of Abuse Testing

1. **Automated Sample Loading:** Effortless loading of biological samples into the system.
2. **Matrix Clean-Up:** Efficiently eliminate impurities for clearer results.
3. **Optimized Analyte Elution:** Ensure thorough extraction of target drugs and metabolites.
4. **Automatic Delivery to SuperVap™ Concentrator:** Concentrate extracts to the desired volume without manual transfer for accurate and clean results.
5. **Ready for Analysis:** Deliver high-quality extracts for LC-MS/MS or GC-MS.

Applications

The AutoPrep™ DOA system excels in diverse testing scenarios, including:

- **Clinical Diagnostics:** Prepare urine and plasma samples for precise medical evaluations.
- **Forensic Analysis:** Ensure reliable results for confirmatory testing in legal and investigative cases.
- **Workplace Drug Testing:** Comply with policies accurately and efficiently.
- **Research & Development:** Explore emerging drugs and metabolites with precision.

Specifications

- **Sample Capacity:** Up to six samples per run
- **Technology:** Positive pressure with multi-pump operation
- **Evaporation:** Integrated SuperVap™ Concentrator
- **User Interface:** High-resolution touch screen display
- **Cartridge Compatibility:** Supports industry-standard SPE cartridges

Advantages for Your Lab

- **Speed and Efficiency:** Complete sample preparation faster than ever while maintaining quality, reducing errors, poor recoveries, and the overall cost of analysis.
- **Regulatory Compliance:** Meet strict industry standards with accurate, consistent, and reproducible results.
- **Resource Efficiency:** Save on solvents and reduce labor costs with a fully automated, high-recovery process.
- **High Recoveries and Excellent Precision:** Produces quality results and reduces poor recoveries and overall cost of analysis.

Name	% Recoveries
Buprenorphine	100
Codeine	99
Fentanyl	97
Hydrocodone	96
Hydromorphone	97
Meperidine	99
Methadone	97
Morphine	98
Naloxone	93
Naltrexone	106
Oxycodone	105
Oxymorphone	97
Tramadol	96

Experience the Future of Drug Testing

The AutoPrep™ DOA Parallel SPE System, complete with integrated SuperVap™ Concentrator, is the trusted solution for laboratories worldwide. Delivering unmatched precision, speed, and reliability, AutoPrep ensures your lab remains at the forefront of innovation.