

Biotage[®] Horizon SmartPrep

Automated Cartridge Extraction System



Automate Your SPE Process

Biotage® Horizon SmartPrep cartridge system is designed for simple automation of manual solid phase extraction (SPE) methods. Just like manual SPE, up to 12 samples per SmartPrep System can be run in one batch, using the same or different methods for each of the 12 samples. Walk away and let your samples run unattended with confidence.

Improve your laboratory workflow, efficiency, and analysis results with enhanced automation of SPE without the need for extensive training or expertise.

Simple SPE with Versatility

- » 1, 3, or 6-mL cartridges
- » Up to 8 solvents can be used in any ratio
- » Independent methods can be run with each cartridge

Flexible Method Development and Optimization

- » Run a variety of cartridges with different sorbents and sorbent weights within a single batch
- » Wash with different solvents or solvent mixes
- » Collect the load, wash, and elute steps for analyte breakthrough evaluation

Features

- » Controlled positive pressure sample and solvent flow rates for the best recoveries and precision
- » Use virtually any standard, commercially available, tabbed or tab-less 1, 3, or 6 mL cartridge
- » Up to four fractions per sample can be collected or discarded to independent waste ports
- » Modular and scalable for more than 12 samples to match your laboratory workload
- » Small footprint provides economical use of laboratory space
- » Built-in solvent mixer allows any solvent mix, easily and automatically
- » User status indicators provide:
 - » Color coded sample and fraction tracking positions
 - » Solvent volume status and calculator
 - » Waste volume calculator for organic and chlorinated solvents
 - » Time per sample and elapsed time clocks
 - » Graphical SPE step indicator icons
- » Sample volumes from 1–1000 mL can be automated on the same platform without system modifications
- » Automatic filtering, concentration, clean-up, and buffer exchange
- » Segregated waste streams: aqueous, organic, chlorinated organic
- » Automatic sample dilution/mixing prior to SPE

Locked in Good Laboratory Practice (GLP)

- » Ensure sample safety using downloaded methods with the touch pad
- » Enable a ‘Run Only’ mode for routine method operation
- » Generate full method and run reports for traceability

Basic or Advanced Operation Modes

Basic 5-Step Run Mode

- » 1. Install SPE cartridges
- » 2. Install fraction collection tubes/vials
- » 3. Position solvent bottles
- » 4. Position samples
- » 5. Import sample sequences

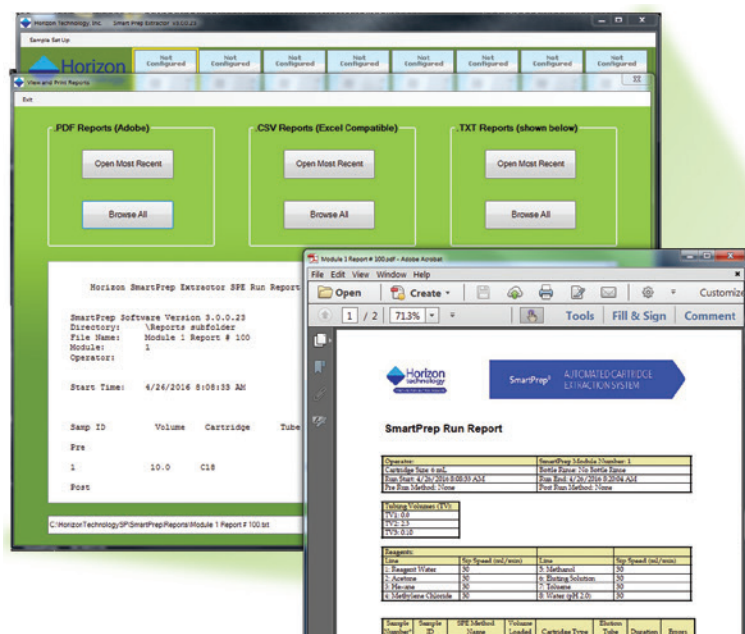
Advanced Run Mode

- » 1. Method creation
- » 2. Method development
- » 3. Method optimization
- » 4. Customize reagents & waste collection
- » 5. Import sample sequences



Intuitive User-Friendly Software

- » Color coded sample and fraction tracking positions to eliminate user error
- » Solvent volume status and calculator for user verification
- » Waste volume calculator separates organic and chlorinated solvent collection
- » Time per sample and elapsed time clocks provide system completion status
- » Graphical SPE step indicator icons keep users informed
- » Choice of report formats for Client delivery or transfer to LIMS



Application Ready

The SmartPrep Extractor allows you to perform your chemistry, ideal for an extensive range of applications, for example:

Food Safety & Packaging Migration

- » Mycotoxins, AOAC, CODEX Alimentarias methods
- » Antibiotics, US FDA methods

Power Utility Monitoring

- » Furans, ASTM D5837
- » Passivators, IEC 60666

Environment & Health Monitoring

- » 1,4 Dioxane, US EPA 522
- » Nitrosamines, US EPA 521

Agriculture & Animal Health

- » Herbicides, US EPA 535



Step 1 Condition



Step 3 Load



Step 4 Wash



Step 5 Elute



- Interferences
- Analyte

Your Complete Partner for Effective Chemistry

Biotage is a worldwide supplier of instruments and accessories designed to facilitate the work of laboratory and process chemists. With our deep knowledge of the industry, academic contacts and in-house R&D teams, we can deliver the best solutions to your challenges. We take great pride in our flexibility and ability to meet our customer's individual needs. With strong foundations in both analytical, organic and process chemistry, we can offer the widest range of solutions available on the market.

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Literature Number: PPS540

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