

EconoPrep® Family of Automated Low Cost, Green Sample Cleanup Solutions for Dioxin and PCB analysis

Imagine performing the Sample Cleanup process for POPs analysis in liquids and solids automatically in as little as 30 minutes.

Built on 25 years of FMS, Inc. experience and technology that has processed millions of Dioxin samples

FMS introduces a new family of integrated, economical sample cleanup systems that combine manual sample prep steps into one automated process. EconoPrep® systems perform sample cleanup, fractionation and concentration for up to eight samples simultaneously in less than 1 hour, while delivering the highest recoveries and best results for all target Dioxin and PCB analytes. The systems are programmed and controlled via an easy-to-use touch screen and methods are stored on SD cards. A flexible system that allows running a single sample preparation step, such as sample cleanup, fractionation or concentration is also an option.

The EconoPrep® Classic for samples with up to 0.4 grams of lipid



EconoPrep® Multi-column Sample Cleanup system is modular, it runs two samples per module, supports up to 4 modules to run a total of 8 samples in parallel.

Simultaneously perform eight sample cleanups and concentrations in less than 1 hour.

The EconoPrep systems are integrated, economical sample preparation systems that combine the sample cleanup, and evaporation steps into one automated process.

Unattended sample preparation.

Install the cleanup columns on the system, push the "Run" button and walk away. The EconoPrep systems will automatically load a sample and perform the entire sample preparation process unattended, in virtually one step. The final fraction is ready for analysis by GC, LC, or GC/LC/MS.

Same day turn around for multiple samples.

Because the EconoPrep can process eight samples in parallel sample cleanup, and concentration. EconoPrep systems are able to turn around up to 64 samples in a day.

EconoPrep® High Capacity for samples with up to 7 grams of lipid



EconoPrep® Multi-column Sample Cleanup system configured for high lipid content.

The EconoPrep® expand to 4 modules for running 8 samples in parallel in 40 minutes



The EconoPrep® is modular and expandable. It runs 2 samples per module and is expandable to 4 modules running up to 8 samples in parallel



Greener Approach Dramatically Reducing Solvent Consumption

The greater efficiency with which the EconoPrep systems perform cleanup reduces solvent consumption.
-Solvent Consumption as low as 120ml

Dramatic savings in time and resources

EconoPrep systems perform the complete preparation of eight samples in just a 30 minutes, instead of days. This results in time and labor savings as well as high throughput.

Low background automated sample prep

The advanced, closed loop system design combined with pre-packed, disposable columns deliver cleaner backgrounds and eliminate cross contamination.

Wide range of pre-packed, disposable cleanup columns

A wide variety of economical, pre-packed, disposable cleanup columns are available for use with EconoPrep systems. These columns are configured in a variety of sizes and packing material types – from standard multi-layered ABN silica to custom made columns.

Disposable Columns used for Dioxins and PCBs, analysis:

1. Multi-layered ABN silica
2. Alumina
3. Carbon
4. High capacity acid silica (optional used for fatty samples, these column removes 5 to 7 grams of fat)

Robust and maintainable

The modular, flexible design of EconoPrep systems virtually eliminates downtime and makes them the most easily to maintain systems in today's laboratories. Each system channel operates independently of the other channels, so if one channel malfunctions the others still work. Should a module malfunction, laboratory personnel can replace it on-site and the exposed construction makes parts accessible for easy replacement.

Easily upgraded to Integrated Sample Extraction, Cleanup, and Concentration Systems for the Total Solution

The EconoPrep® S system for solid samples



*PLE® Pressurized Liquid Extraction Module
PowerPrep® Multi-column Sample Cleanup Module
SuperVap® Evaporation and Solvent Exchange Module*

FMS, Inc. Introduces the New Chemistry Kit Rental Program for the Industry Standard EconoPrep® Multicolumn Cleanup System for Dioxins and PCBs

- Allows the laboratory to acquire equipment without the outlay of capital funds
- A program designed to fit within a laboratory's budgetary constraints better than a capital purchase
- Offers a program that could fit within a laboratory's purchasing departments constraints
- It will allow laboratories to implement automation quickly and not have to wait for months or years