

# 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 over a million of Dioxin samples.**

FMS introduces a new family of integrated and economical sample cleanup systems that combine the manual sample preparation 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.**

One EconoPrep system is able to process up to 64 samples in a day. This is because one system can process eight samples in parallel.

**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® Mini for samples with up to 0.2 grams of lipid**



**Greener approach dramatically reduces solvent consumption**

The greater efficiency of the EconoPrep systems reduce solvent consumption.

- Solvent Consumption as low as 120 ml

**Dramatic savings in time and resources**

EconoPrep systems perform the complete preparation of eight samples in only 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), this column removes 5 to 7 grams of fat

**Robust and maintainable**

The modular design of EconoPrep systems eliminates downtime and makes them the easy to maintain in the laboratory. Each system's channels operate independently of the other channels. If one channel malfunctions the other channels will continue to operate. Should a module malfunction, laboratory personnel can easily replace the module. The exposed construction design makes parts accessible for easy replacement.

**The EconoPrep® is modular and expandable. It runs 2 samples per module and is expandable to 4 modules.**



**Easily upgrade to integrate sample extraction, cleanup, and concentration 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

