

EzPrep⁺

Simple, Quick, Powerful

Automated Dioxin & PCB Sample Cleanup System



FMS
Fluid Management Systems

EzPrep⁺

Simple, Quick, Powerful

Automated Dioxin & PCB Sample Cleanup System

Features & Benefits:

Simple to Operate

Quick

Powerful

Low Cost

Closed System

Low Solvent

Fat Removal

Green Technology

High Throughput

Quality Consumable

Reliable

No Cross-Contamination

No computer or programming

30 to 45 minutes per run

Simplifies dioxin & PCB analysis

Fit the smallest of budgets

No exposure to harmful chemicals

As low As 110 ml per sample

Capacity Up to 7 grams

Zero DCM

1 to 6 samples in parallel

Guaranteed certified columns

No computer or electromechanical parts

No tubing or fittings

EzPrep⁺ Automated Dioxin & PCB Sample Cleanup

Built on 30 years of FMS experience and technology that has processed millions of Dioxin samples, FMS introduces the EzPrep⁺, a simple and powerful sample cleanup system. The EzPrep⁺ combines precision, reproducibility and the unattended features of an automated system with enhanced simplicity and reliability to provide a simple automated sample clean up for Dioxin and PCB analysis. The EzPrep⁺ system performs the entire sample cleanup for six samples simultaneously in less than 30-40 minutes, delivering excellent recoveries and reproducible results for all target Dioxin and PCB analytes.

The EzPrep⁺ performs Dioxin and PCB sample clean-up at the lowest cost, delivering same day turnaround quality results for Dioxin & PCB analysis.



EzPrep⁺

Simple, Quick, Powerful

Automated Dioxin & PCB Sample Cleanup System

Simple to Operate

With a simple control panel, one only needs to select solvent, flow rate, volume and press start. With three automated steps, the EzPrep⁺ quickly performs the entire sample cleanup in 30 to 45 minutes. The Dioxins & PCBs are collected in tubes with GC vials ready to be concentrated for GC/MS Analysis.

Quality Consumables

A wide variety of economical, pre-packed, disposable cleanup columns are available for use with the EzPrep⁺ System. Column consumables are certified and guaranteed for cleanliness and performance.

Fast 30 to 45 Minutes per run

With EzPrep⁺'s simple design one can run the entire sample cleanup in 30 to 45 minutes achieving high recoveries and excellent precision.

High Throughput

EzPrep⁺ performs the sample cleanup for 6 samples simultaneously achieving high recoveries and excellent precision for all analytes. The combination of simple set up and prepacked consumables allows 48 samples to be processed per day.

No Cross-Contamination

The unique design of snap-in columns allows the columns to be stacked in tandem. There is no shared tubing and fitting.

Automated Solvent Delivery and Sample Loading

Automated solvent delivery of EzPrep⁺ delivers the exact amount of solvents with a precise flow rate to chromatography columns. The solvent delivery is very simple to use. Select the solvent, flowrate and volume. The system includes an over pressure safety feature which will automatically disable the pump and sound an alarm if over pressure is detected.

Green Technology

The unique design of the EzPrep⁺ eliminates the use of DCM in the cleanup process and minimizes solvent consumption.

Reliable No Downtime

The simple design of the EzPrep⁺ virtually eliminates downtime. There is no computer or electromechanical valves or sensitive mechanical components to fail.

Low Solvent

Depending on the sample matrix and fat quantity, use as low as 110 ml per sample.

Fat removal capacity up to 7 grams

Column kits designed for samples with different lipid content allow for using the lowest possible amount of solvent to process a sample.

Quality Consumables

EzPrep⁺ consumables are manufactured in a clean room and tested and certified to assure the highest quality and performance.



EzPrep⁺

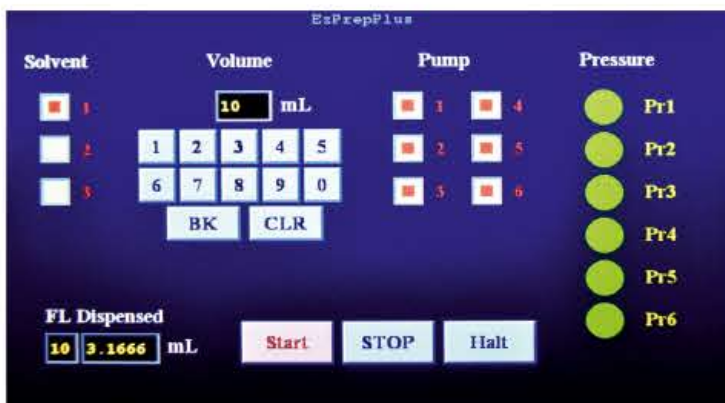
Simple, Quick, Powerful

Automated Dioxin & PCB Sample Cleanup System

Typical Recoveries

Direct-To-Vial Concentration

The SuperVap-12 standalone direct-to-vial evaporation/concentration system is the ideal solution for performing the final evaporation and concentration step. The SuperVap evaporates the extracts from collection vessels in the EzPrep⁺ eliminating an extract transfer step and delivers final PCBs and Dioxins extracts directly to GC vials ready for GC/MS.



“Simple to use Control Panel”

13C PCDD/Fs Recoveries Matrices

	Egg yolk 18 g	Feed 10 g	Fish oil 2 g	Olive oil 2 g	Soil 5 g	Hexane
2378-TCDF	86	86	83	94	99	84
2378-TCDD	72	95	96	97	90	101
12378-PeCDF	85	90	75	98	88	77
23478-PeCDF	74	92	90	99	94	96
12378-PeCDD	75	94	77	73	72	108
123478-HxCDF	79	98	92	87	86	90
123678-HxCDF	80	102	94	90	104	89
234678-HxCDF	83	75	96	72	77	96
123789-HxCDF	88	95	79	96	115	98
123478-HxCDD	86	96	92	101	106	84
123678-HxCDD	89	89	86	88	88	86
1234678-HpCDF	82	77	87	79	78	80
1234789-HpCDF	92	80	77	88	91	90
1234678-HpCDD	87	78	73	85	78	79
OCDD	70	73	88	75	74	76

13C PCBs Recoveries Matrices

	Egg yolk 18 g	Feed 10 g	Fish oil 2 g	Olive oil 2 g	Soil 5 g	Hexane
PCB 28	72	94	94	97	86	88
PCB 52	74	103	96	99	87	87
PCB 77	110	99	92	96	90	98
PCB 81	71	104	93	94	94	89
PCB 101	77	106	99	103	88	94
PCB 105	71	91	107	106	106	103
PCB 114	78	93	89	100	103	99
PCB 118	73	95	86	95	91	90
PCB 123	77	95	99	93	107	98
PCB 126	84	96	90	90	103	104
PCB 138	70	97	97	94	98	107
PCB 153	72	88	108	95	99	93
PCB 156	78	85	104	107	102	94
PCB 157	74	86	96	103	98	98
PCB 167	76	106	97	101	112	100
PCB 169	80	92	98	94	90	110
PCB 170	79	101	94	96	98	115
PCB 180	82	99	96	98	104	100
PCB 189	71	90	93	89	106	96

Patent Pending

