Elemental Scientific

prepFAST S

Automated Fluoronetic Introduction
of Pure Semiconductor Chemicals for
ICPMS Analysis

Fluoronetics

- Fluoropolymer kinetic motion
- Magnetically coupled PTFE/CTFE drive
- Highest chemical resistance of any autosampler
- Lowest contamination risk of any autosampler
- Long-lived components

prepFAST S Features

- Ultrapure semiconductor-grade chemical analysis
- Detection limits in ppt/ppq range with ICPMS
- Automatic calibration – MSA or external
- SampleSense valve detects all samples – viscous, non-viscous, solvents – without timing or method adjustment
- Ultraclean automated sample preparation and dilution
- Compatible with microsamples (<1 mL) up to 500 mL PFA bottles
- Direct analysis of concentrated chemicals without pre-dilution
- Integrated clean environment
- Reagent level and safety sensors
- Fluoronetic automation is included with all prepFAST S systems

prep*FAST* S Features Diagram

Electronics in Rear Plenum

SampleSense Valve

Automatically detects all sample
types and eliminates method
timing variables

Exhausted Enclosure

Built-in to allow for maximum
safety when directly analyzing
concentrated chemicals

Sample Containers

<1 mL up to 500 mL

UPW Polishing Columns

UPW is used as carrier, diluent,
and rinse to control background
levels and improve detection limits

Ultraclean Fluoronetic Z-rail

- True fluoropolymer action
- Magnetically coupled linear drive
- Long-lived and chemically resistant

**Auto Aligning Arm
and PFA Probe**

**Overflowing UPW
Dual Rinse Station**

Ultrapure Water Valve

Controls UPW flow into and
throughout the prep*FAST* S

**Integrated Ultra-high-
purity Syringe Dilution**

Inline automated calibration
and dilution system

Leak Sensors

With external warning
light and auto-shut-off

Double Containment Tray

Micro Sampling

Precision loading for
micro sample analysis

**High Purity
PFA Reservoirs**

Reagent Level Sensors