

Elemental Scientific



prepFAST SE

Benchtop System for Automated Sample Introduction of Ultrapure Chemicals



ICP | ICPMS

Automated Analysis of Undiluted Ultrapure Chemicals

The prepFAST SE provides automated and precise introduction of neat ultrapure chemicals featuring syringe sample delivery. The system can be configured with multiple options to tailor performance for your most challenging semiconductor-grade chemical analyses.

- Ultraclean Fluoronetic Autosampler with inert PTFE deck
- Integrated, exhausted enclosure with three-sided access for a clean sample environment
- High precision, syringe-driven sample uptake and delivery

Fluoronetic Autosampler

- Probe arm fully encapsulated in fluoropolymer for maximum chemical resistance – no exposed metal anywhere in sample area
- Magnetically coupled linear drive for long lifetime
- DXCi autocorrecting autosampler goes to the correct position, even when temporarily obstructed
- · Continuous flowing UPW rinse
- Small benchtop footprint
 - prepFAST SE 2DX (2 large racks, 4 micro racks)

Syringe-Driven Sample Introduction

- Eliminates fluctuations in sample flow rate common with natural aspiration
- Software controlled flow rates for each chemical
 <50 μL/min up to 400 μL/min
- Precise uptake and analysis of small volume samples
- High speed washout of nebulizer & spray chamber between chemical types
- Automated external calibration, MSA calibration, & QC spiking

Fluoronetic Drive Delivers



Superior Chemical/ Corrosion Resistance



Chemically Inert Non-contaminating

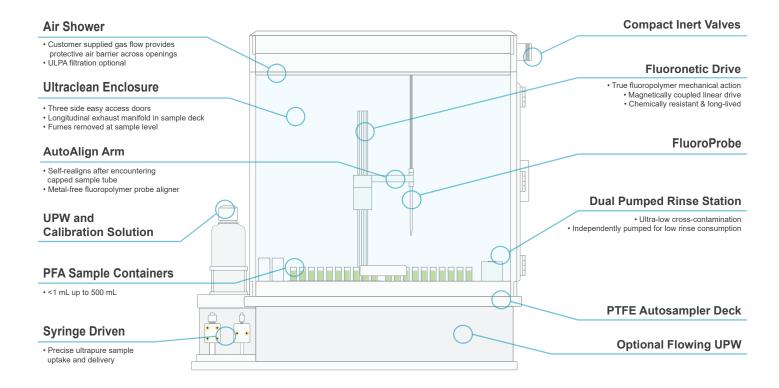


Magnetic Coupling Eliminates Metal Components



Intelligent Autocorrection Always Finds Sample Position

prepFAST SE 2DX Features Diagram

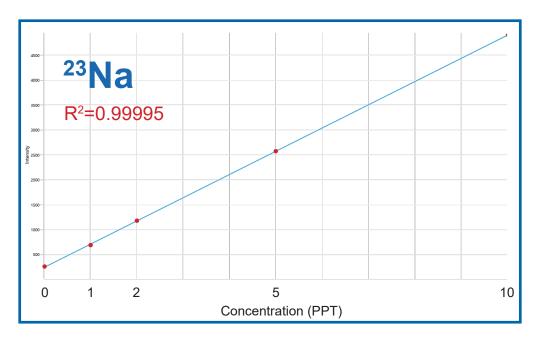


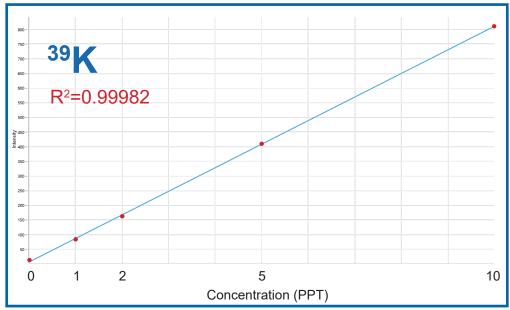
prepFAST SE Options

- · Clean air shower with ULPA filtration
- Leak Sensors
- Valve for automated introduction of ICPMS tuning solutions
- UPW Intake Manifold and compact UPW valve
- Configurable with many PFA sample containers:
 - Micro sample vials (<1 mL)
 - 15, 30, & 60 mL vials
 - 100, 250, & 500 mL bottles

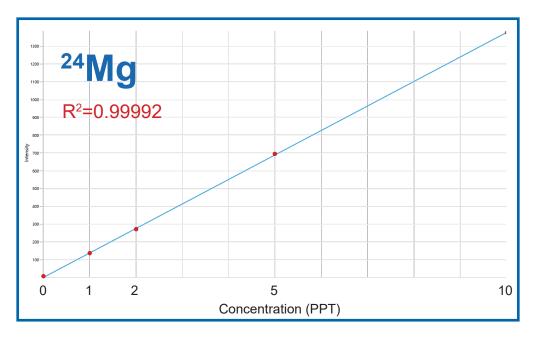


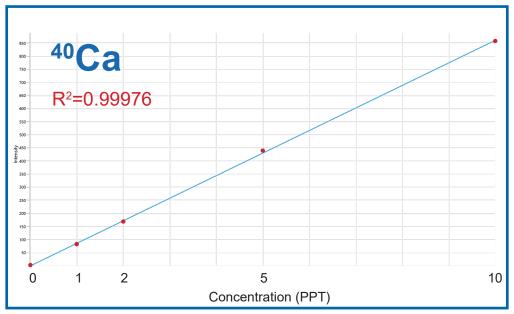
prepFAST SE Autocalibration – Na, K, Ca, Mg at 1, 2, 5, & 10 PPT in UPW





The prep*FAST* SE fully automates the inline preparation of calibration standards, eliminating contamination from manual dilutions. Supports both external and method of standard additions calibration techniques.





prepFAST SE Sample Capacities



Syringe delivery of samples provides reliable and reproduceable sample introduction and eliminates issues common with natural aspiration.

prep*FAST* SE 2DX

	Part Number	PF-SE-2FNXS
Large Racks – Max Sample Capacity	# Rack Positions	2
	125 mL bottles (SR)	24
	50 mL tubes	52
	15 mL tubes	120
	8 mL tubes	180
Micro Racks – Max Sample Capacity	# Rack Positions	4
	15, 25, 30 mL vials	40
	1, 2, 4, 12 mL vials	84
	1, 2, 4 mL vials	160
	1 mL vials	240



prep*FAST* SE 2DX model configured for semiconductor grade ultra-pure chemical analysis.







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