

prepFAST Station

Automated Offline
Sample Preparation System

Countless Sample Preparation Needs.
One **Station.**



Never Worry About Sample Preparation Again.

▶ Better Results

Increase precision and accuracy with fully-automated sample preparation

Improve reproducibility and eliminate inconsistent manual dilutions

▶ Customized Hardware & Software

Unlimited number of predefined custom methods selectable on integrated touchscreen interface

Available in four models with several hardware options available to conform to your sample preparation needs

▶ Time & Cost Savings

Significantly decrease your sample preparation time

Eliminate the time spent training employees tedious manual sample preparation methods

prepFAST Station Capabilities:

- Autodilution
- Acidification
- Internal Standard Addition
- Standards Preparation
- Sample Mixing
- Vessel Cleaning

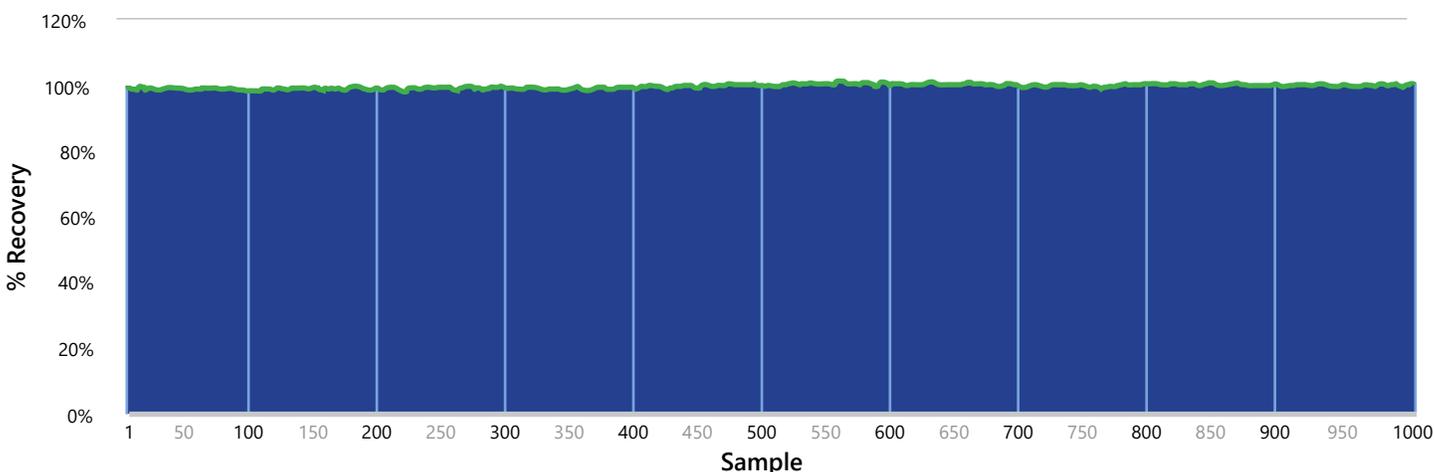


Better Sample Preparation. Better Results.

► Accuracy

Average Accuracy: $100\% \pm 1\%$

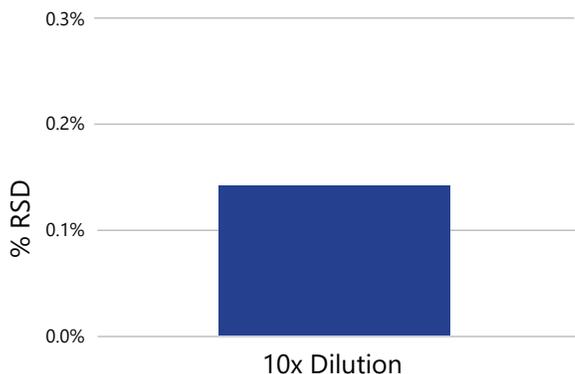
prepFAST Station automatically dilutes samples and standards at a high level of accuracy. ICPMS recovery for 1000 samples of Be, Ni, Cu, As, and Pb averaged $100\% \pm 1\%$ at a 10x dilution factor.



► Precision

Average Precision: $<0.2\%$ RSD

prepFAST Station produces superior results equal to or above the quality of manual dilutions without the hassle. prepFAST Station can dilute samples as low as 0.2% RSD or better depending on the final prepared sample volume.



► Carryover

Average Carryover: 0.0014%

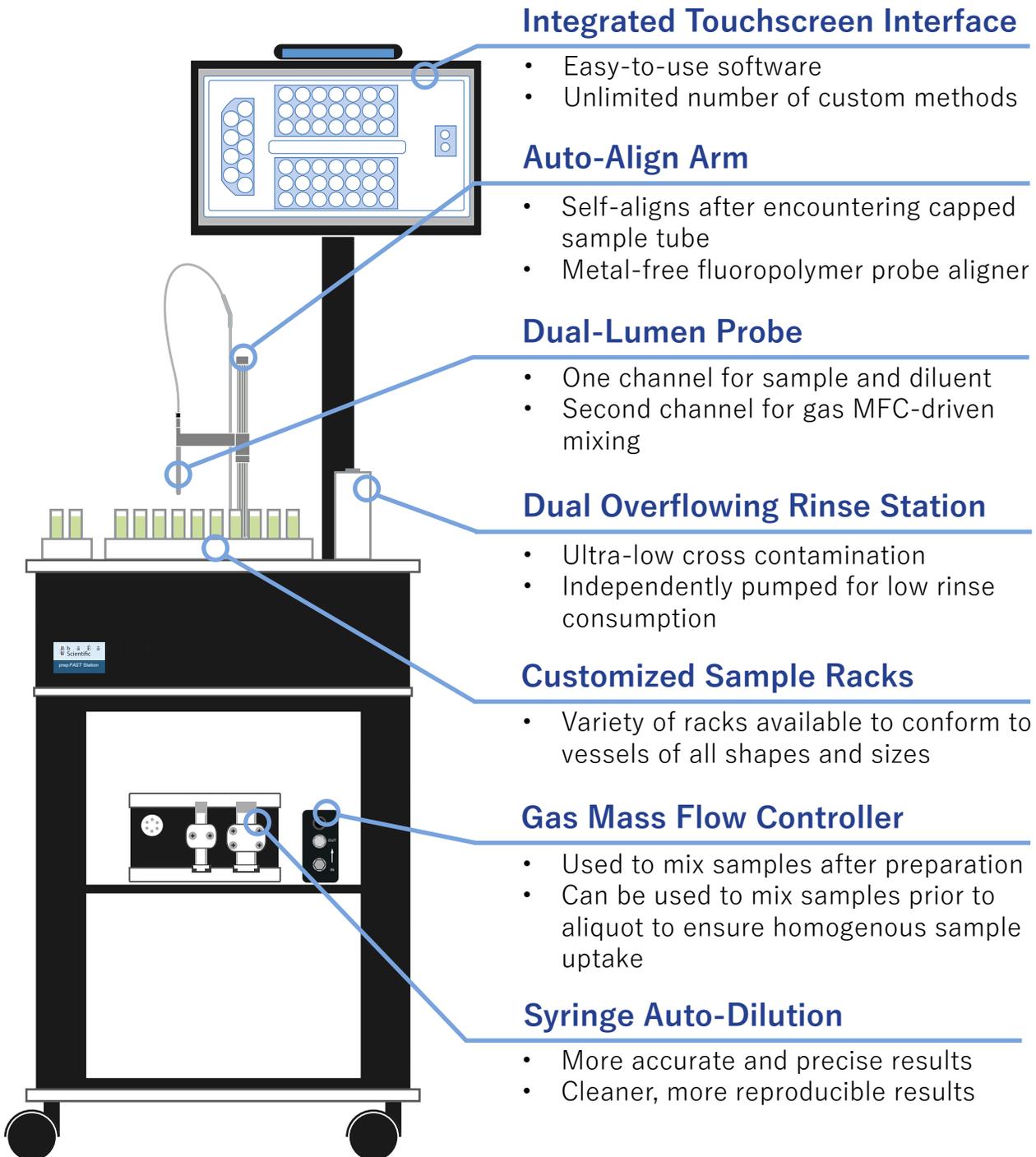
prepFAST Station has low carryover and minimal cross-contamination. The probe is rinsed internally and externally in a dual rinse station before and after preparing each sample. Rinseout after processing a high multielement standard shows a signal reduction factor averaging 82000x, equivalent to 0.0012% carryover-- comparable to the best rinseout data expected using ICPMS.

Analyte	Reduction Factor
Be 9	4800
Mn 55	22000
Cu 63	31000
As 75	180000
Ba 138	150000

Analyte	Reduction Factor
Ce 140	150000
Ta 181	53000
Pb 208	18000
U 238	130000
Average	82000
Carryover = 0.0012%	

Features

prepFAST Station: The Solution To All Of Your Sample Preparation Needs



Key Feature

Integrated Touchscreen Interface

LED Beam
Displays current
status of method



► User-Friendly

Proprietary, intuitive software is easy-to-use and responsive to the current status of the method

Simply turn on the tablet, select your desired method, and let prepFAST Station do the work for you

► Customizable

Sample preparation methods are easily customized to meet your exact specifications

Quickly navigate to your methods on the home screen with easy access to a library of an unlimited number of custom methods

► Fully-Integrated

Clean, integrated system design without any visible cables or cords

Eliminate need to clean off valuable lab bench space for separate computer

Solving Problems For Every Type Of Laboratory

Sample Preparation Processes

High Throughput Labs

prepFAST Station provides the highest level of time and cost savings to laboratories with repetitive high throughput sample preparation processes.

Automated sample preparation will significantly increase laboratory efficiency and can improve the daily sample throughput.

Laboratory Classification

Market & Industry

prepFAST Station automates sample preparation for all types of labs including:

- Clinical
- Environmental
- Mining
- Pharmaceutical

Application

prepFAST Station can help labs in need of sample preparation for several applications including:

- Blood, Urine, & Serum Sample Dilution for Heavy Metals
- Drinking Water & Soil Analysis
- Four Acid Digestion
- USP <232>/<233> Sample Testing

Multi-Functional Labs

prepFAST Station especially benefits labs with multiple types of sample preparation methods.

The fully-automated sample preparation system allows you to select numerous preparation methods and walk away, freeing up time for more important tasks.

With prepFAST Station preparing samples, you will no longer have to worry about inconsistency between manual dilutions, thus improving precision and accuracy.

Discover what prepFAST Station can do for you



Technical Specifications

Station Specifications

	2DX	4DX	8DX	14DX
System Dimensions				
Height	69"	69"	69"	69"
Width	26"	35"	35"	46"
Depth	13.6"	13.6"	24"	26"
Fluid Contact Material	Components within sample flow path are inert, non-metallic materials			
Power Requirements	110V - 240V, 47 - 63 Hz, 7.2A One power outlet needed			
Gas MFC Requirements	Ar/N, 1/4" or 4 mm tubing			

Rack Capacity

	2DX	4DX	8DX	14DX
Large Racks	2	4	8	14
Microtiter Plates	4	6	-	-
Maximum Sample Capacity				
50 mL	52	120	180	384
15 mL	120	240	360	576
8 mL	180	360	720	1260
MT-96	384	576	-	-

2DX Station

8DX Station

4DX Station

14DX Station

