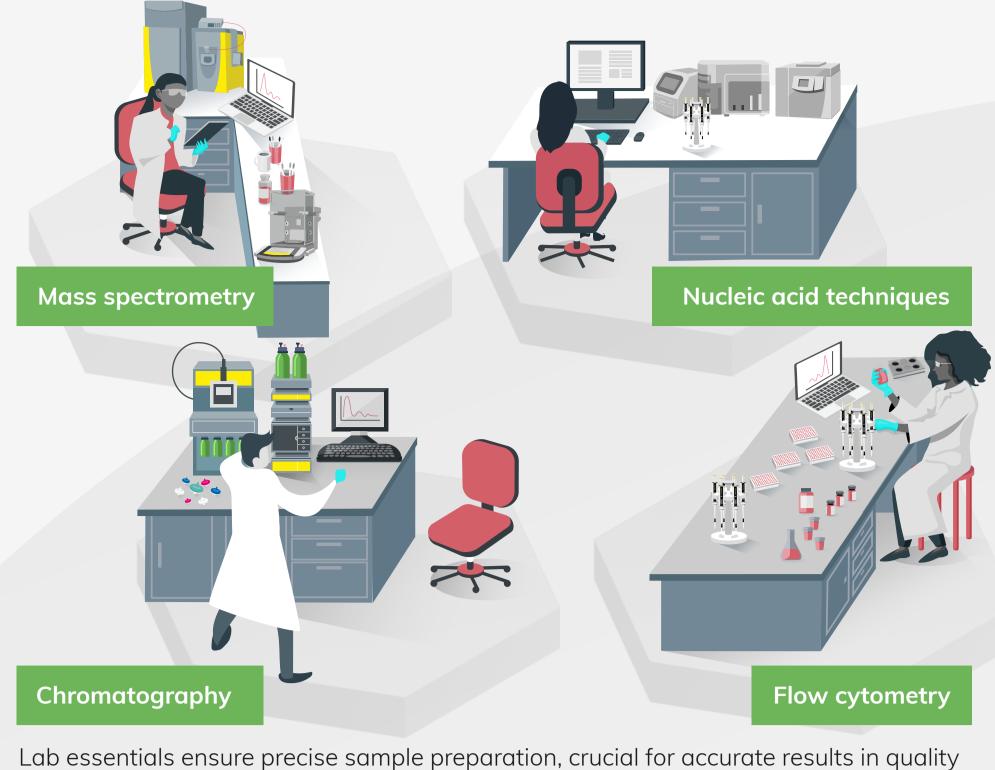
SARTURIUS

The Essentials of Sample Preparation

Sample preparation is a foundational element for precise analysis, ensuring product safety and regulatory adherence. This critical process refines samples for compatibility with advanced analytical techniques like chromatography, mass spectrometry, nucleic acid techniques and flow cytometry.



control testing. Top-notch lab essentials strengthen sample processing, transforming samples for analysis while preserving key compounds and eliminating contaminants. Thereby, prolonging the life of chromatography columns, analytical instruments and minimizing interferences. **Tools for Reliable and Accurate Sample Preparation**

Lab Weighing

Common problem



When preparing HPLC standards,

can lead to unrepeatable and imprecise

improper weighing and manual calculation

Solution Lab balances with ultra-high resolution can be

used for precise preparation of calibration



standard series.

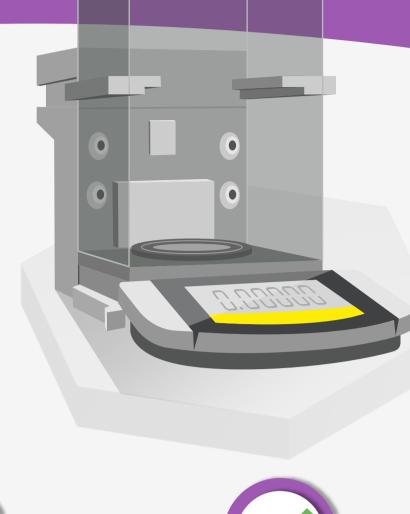
analytics

Allow accurate

sample and solvent

weighing for further





adhering with USP and FDA requirements

Guarantee fast

stabilization by

eliminating static

Enable extremely low

sample weight and

concentration,



record

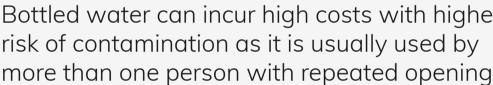
CFR part 11 compliant



Provide step-by-step guidance to simplify both routine and advanced cleaning procedures

Bottled water can incur high costs with higher

Lab Water



and closing of the bottle.

Common problem

Solution By choosing a water system that can be flexibly configured, ensure that your sample is treated with the highest quality solvent and mobile phase.



Lab water systems

ultrapure water can be used for sensitive



Prevents interference

and false positive and negative results in

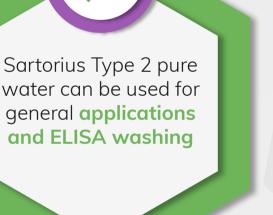
analytics

Syringe Filters Common problem Improper filtration of samples reduces the quality

Sartorius Type 1

assays (ICP, MS or HPLC)

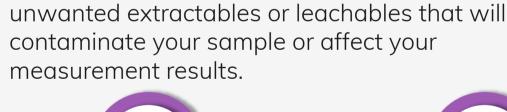




Solution

Syringe filters for clean

particle-removal



and consistency of analytical results and

liquid samples prior to HPLC analysis.

decreases instrument downtime. Therefore, it is

important to remove particulate impurities from

Use syringe filters with fast flow rates and lower

absorption characteristics without adding

Ensure sterility and

instruments





Common problem Unreliable and inaccurate pipetting can lead to

contamination of samples and incorrect

Pipetting & Dispensing



sample volumes.

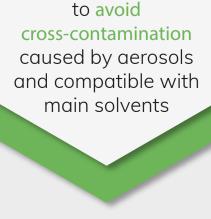
Pipettes and tips can be used for accurate and inert transfer of even the smallest volumes.

Connected electronic









Quality filter tips

This infographic has been created as part of a Bioanalysis Zone feature in association with Sartorius.

