

# Enhancing your analytical capabilities with efficient sample preparation

## EXTREVA ASE Accelerated Solvent Extractor

Sample preparation is often the most challenging part of any analytical analysis. As chromatography and mass spectrometry instruments become more advanced, efficient sample preparation is crucial to meet stringent analytical method requirements. Traditional methods are labor-intensive and inefficient, leading to significant delays. The Thermo Scientific™ EXTREVA™ ASE™ Accelerated Solvent Extractor revolutionizes sample preparation by streamlining the entire process. This advanced system integrates multiple instruments into a single, automated workflow, enhancing efficiency and reducing turnaround times. Say goodbye to the need for multiple devices and slow processing—experience the future of sample preparation with the Extrema ASE system.

**It's time to discover efficient, walkaway preparation from sample to vial.**

### Today's sample preparation challenges

#### Recovery and reproducibility

- The quality of the prepared sample is very dependent on the skill level of the analyst.
- Sample preparation can result in poor reproducibility and unacceptable recoveries, especially with a new technician running the process.

#### High costs

- Labor significantly contributes to the cost of sample preparation because analysts must dedicate significant time to this process.
- Solvent usage and related disposal increase costs associated with sample preparation.
- Manual sample preparation methods require training for new analysts, which adds additional cost.
- Laboratory investigations are conducted when errors occur — this requires extra time and unnecessary laboratory costs.

#### Error-prone

- Sample preparation is the step where an error is most likely to occur.
- Errors cause increased costs and can result in a need to obtain new samples.
- Errors may not be discovered until the analysis is complete.

#### Low throughput

- Traditional methods take a long time to set up and run.
- Many instruments process samples one at a time.

#### Complicated labor-intensive workflows

- As much as 60% of an analyst's time can be spent solely on sample preparation.
- This time could be better spent on more important tasks.

#### Automation improves sample preparation

- Automation improves method performance with better reproducibility and recoveries.
- The risk of errors is significantly reduced.
- Consistent performance without the distractions of manual preparation.

#### Walkaway solution decreases hands-on time

- The lab is more productive.
- Analysts can accomplish higher priority tasks.
- Hands-on time is reduced from hours to minutes.
- Significant savings from labor costs.

#### All-in-one automated sample preparation

- Extracts and concentrates samples automatically.
- Process is simple and streamlined.

#### Parallel extraction boosts productivity

- Four samples are processed at a time.
- Extraction and evaporation are accomplished in parallel.
- Throughput is significantly increased.
- Costs are reduced.

#### Reduce solvent usage

- Dynamic gas-assisted extraction mode reduces solvent consumption.
- Solvent purchases decrease and disposal costs are reduced.
- Sustainability initiatives can be supported.

## EXTREVA ASE system—the sample preparation solution

### The first-of-its-kind EXTREVA ASE Accelerated Solvent Extractor

delivers true walkaway sample-to-vial sample preparation, reduces your manual labor from hours to minutes, and enables you to focus on other lab priorities.

Learn more at [thermofisher.com/extreva](https://thermofisher.com/extreva)

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