

HAMILTON

Dual MassSTAR

TDM and DoA sample preparation on a small footprint



Maximum Functionalities: Protein precipitation and Solid-Phase Extraction on one system



Combined Workflows: Simultaneous processing of several analytes within a single run



Fast & Flexible: Processing of up to 96 samples (including calibrators and controls) in under 1.5 hours

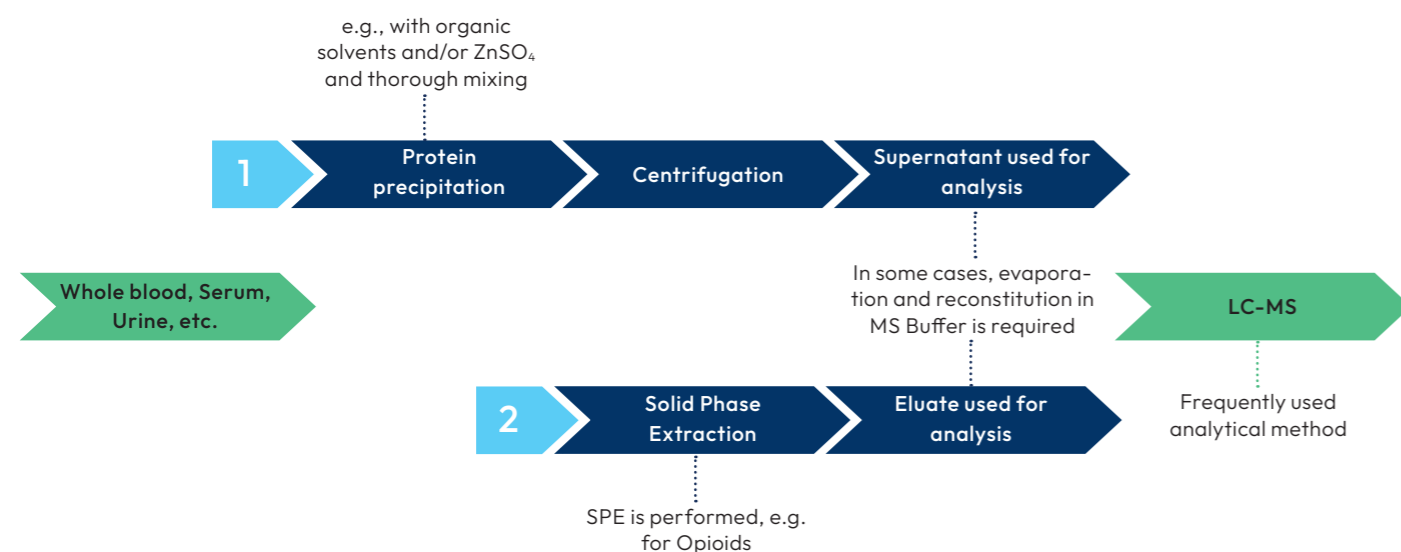
Clinical Mass Spectrometry Simplified

The Dual MassSTAR has been developed to meet clinical laboratories' needs by enabling the parallel processing of small-sample batches for similar mass spectrometry sample preparation workflows. It combines Hamilton's pipetting technology, powerful software, and integrated technologies to create a full-

ly-automated solution for both protein precipitation and Solid-Phase Extraction workflows. Packed into the STARlet's small footprint, the system maximizes valuable bench space while delivering consistent and accurate results.



Typical worksteps in LC-MS Sample Preparation



It All Starts with a Smart Combination

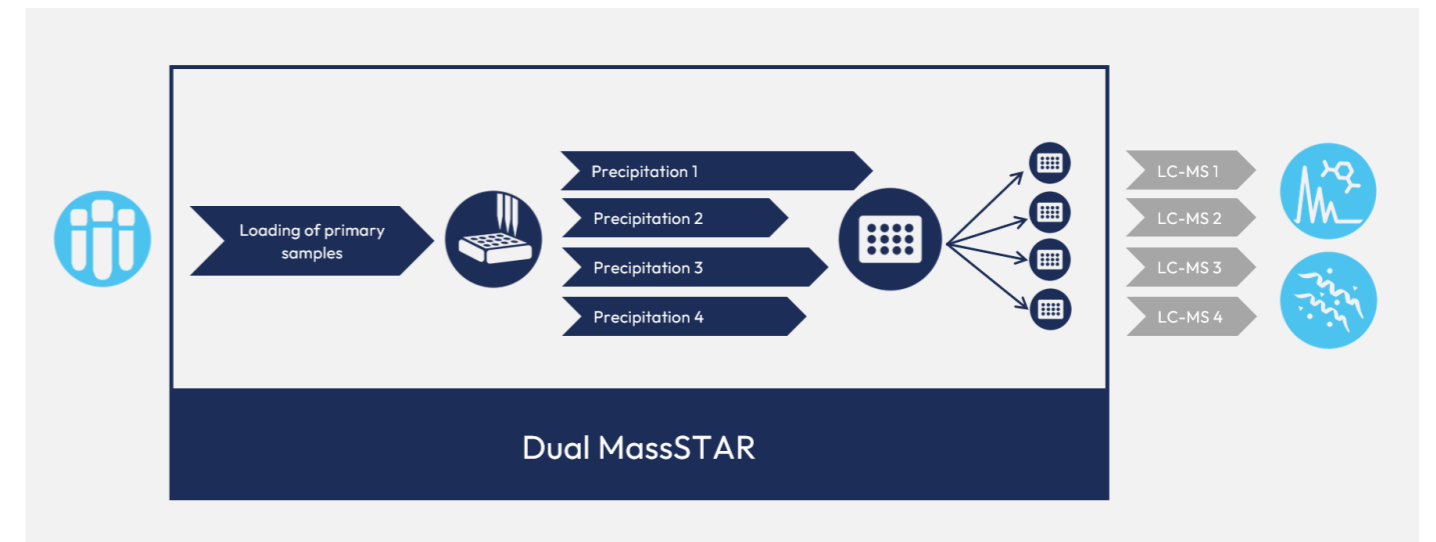


Therapeutic Drug Monitoring (TDM)

Achieving a balance between non-effective and toxic drug concentrations for optimized patient treatment (e.g., antibiotics, immunosuppressants or antidepressants)

Drug of Abuse (DoA) testing

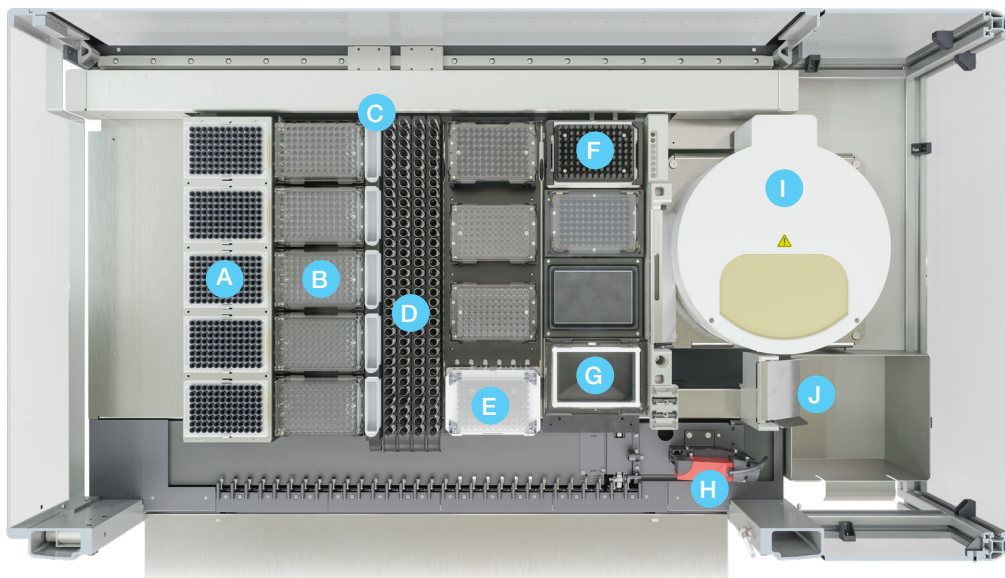
Relevant for medical and legal reasons, especially with cannabinoids and opioids



The Dual MassSTAR allows for the combination of analogous protein precipitation workflows for both Drug of Abuse testing and therapeutic drug monitoring. For example, it enables the simultaneous processing of protein

precipitation for antidepressant, antiepileptics, and antipsychotics samples within a single run. A specialized framework, precisely optimized for the platform, significantly enhances method efficiency.

Specifications



- A** 480 tips in one loading process
- B** 8 plate positions
- C** Up to 5 reagents
- D** Sample Carrier according to the customer's needs
- E** Cooling and heating from 0 °C to +110 °C
- F** Up to 2500 rpm and +105 °C on an orbital (3 mm) Heater Shaker
- G** Vacuum station for Solid-Phase Extraction
- H** Barcode reading for traceability
- I** Centrifugation with up to 2000 x g for protein precipitation
- J** Tip Waste

Physical Dimensions

Description

Width	1391 mm
Depth (without Autoload)	788 mm
Depth (with Autoload)	1008 mm
Height	901 mm

Operating Conditions

Description

Temperature	+15 °C - +35 °C
Humidity	15% - 85% without condensation
Altitude above sea level	0 - 2000 m

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