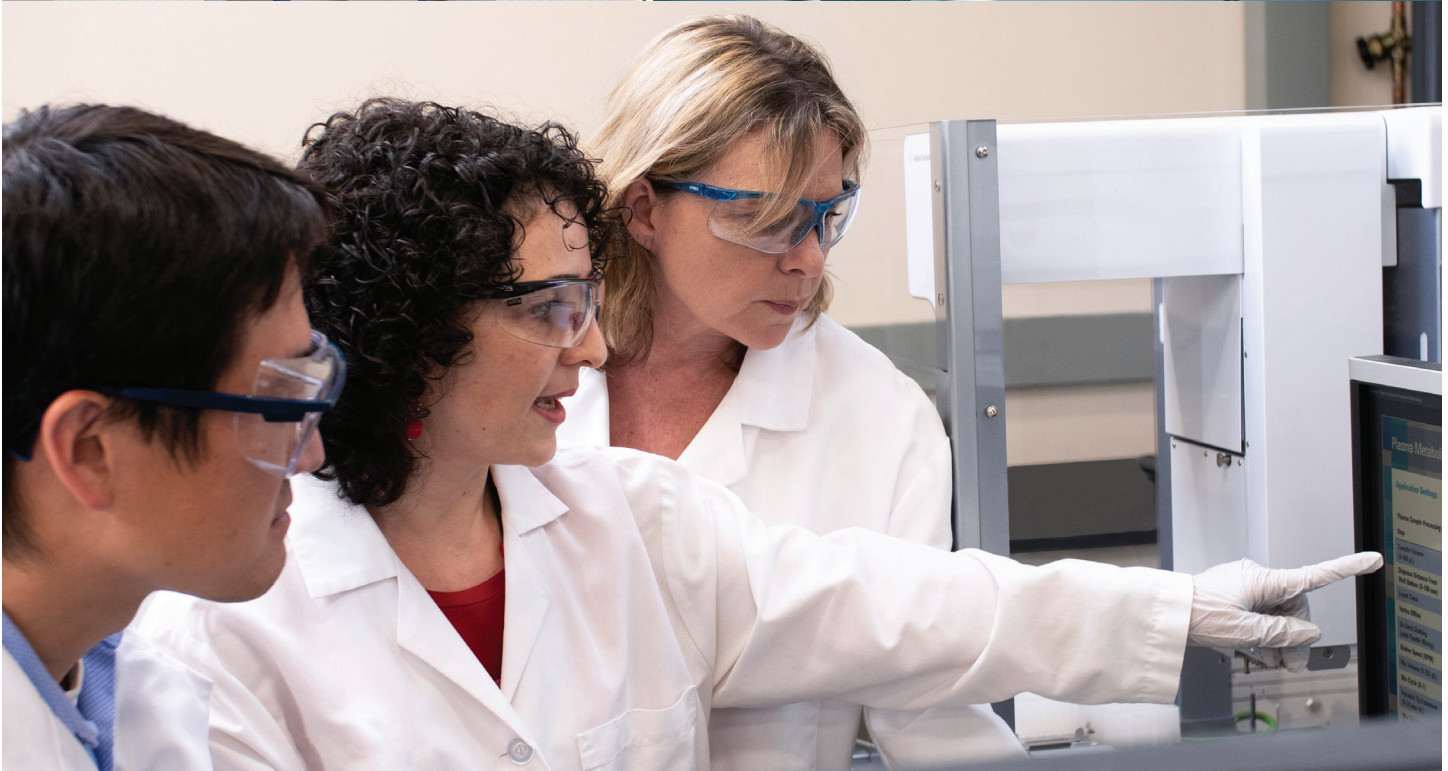


# Better Reproducibility, Fewer Replicates, Faster Results

Automate your metabolomics sample preparation with the Agilent Bravo platform







# Consistent Metabolomics Data Starts with Consistent Sample Preparation

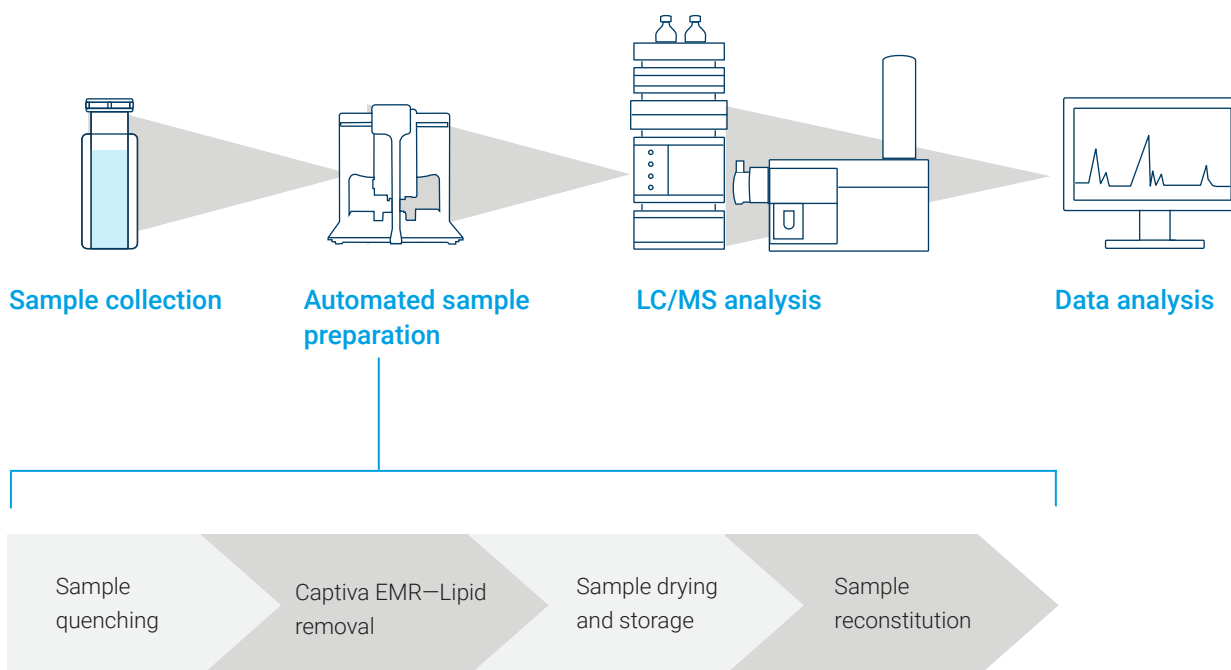
Manual sample preparation is time-consuming and—worse—inherently error prone, which can pose a significant challenge for your metabolomics studies.

## Achieve consistent and reproducible results that are operator independent with the new Agilent Bravo Metabolomics Sample Prep Platform

Based on the Agilent Bravo automated liquid handler, the Bravo Metabolomics Sample Prep Platform is designed for extracting metabolites in plasma samples. This innovative platform provides an alternative to manual sample preparation that lets you:

- Standardize plasma sample preparation leading to downstream LC/MS analysis
- Ensure batch-to-batch consistency
- Process samples with precise pipetting
- Minimize variability between analysts
- Reduce the need for costly rework

### Automate and standardize your metabolomics sample preparation protocol





# Seamlessly Integrate Sample Preparation into Your LC/MS Metabolomics Workflow

Begin your discovery and targeted metabolomics workflow with an automated platform specifically designed for metabolomics sample preparation from plasma.

By increasing consistency, reliability, efficiency, and walk-away time, the Bravo Metabolomics Sample Prep Platform helps you to obtain reliable results, faster. So you can discover meaningful biomarkers with speed and confidence.



**Agilent Bravo Metabolomics  
Sample Prep Platform**

**Agilent Bravo Metabolomics  
Workbench software**

**Agilent 1200 Series  
Infinity II LC system  
for separation**

The Agilent Bravo Metabolomics Sample Prep Platform is a powerful addition to the Agilent metabolomics workflow solution, and can be used with any LC/MS system.

**Agilent triple quad  
or Q-TOF LC/MS  
for measurement**

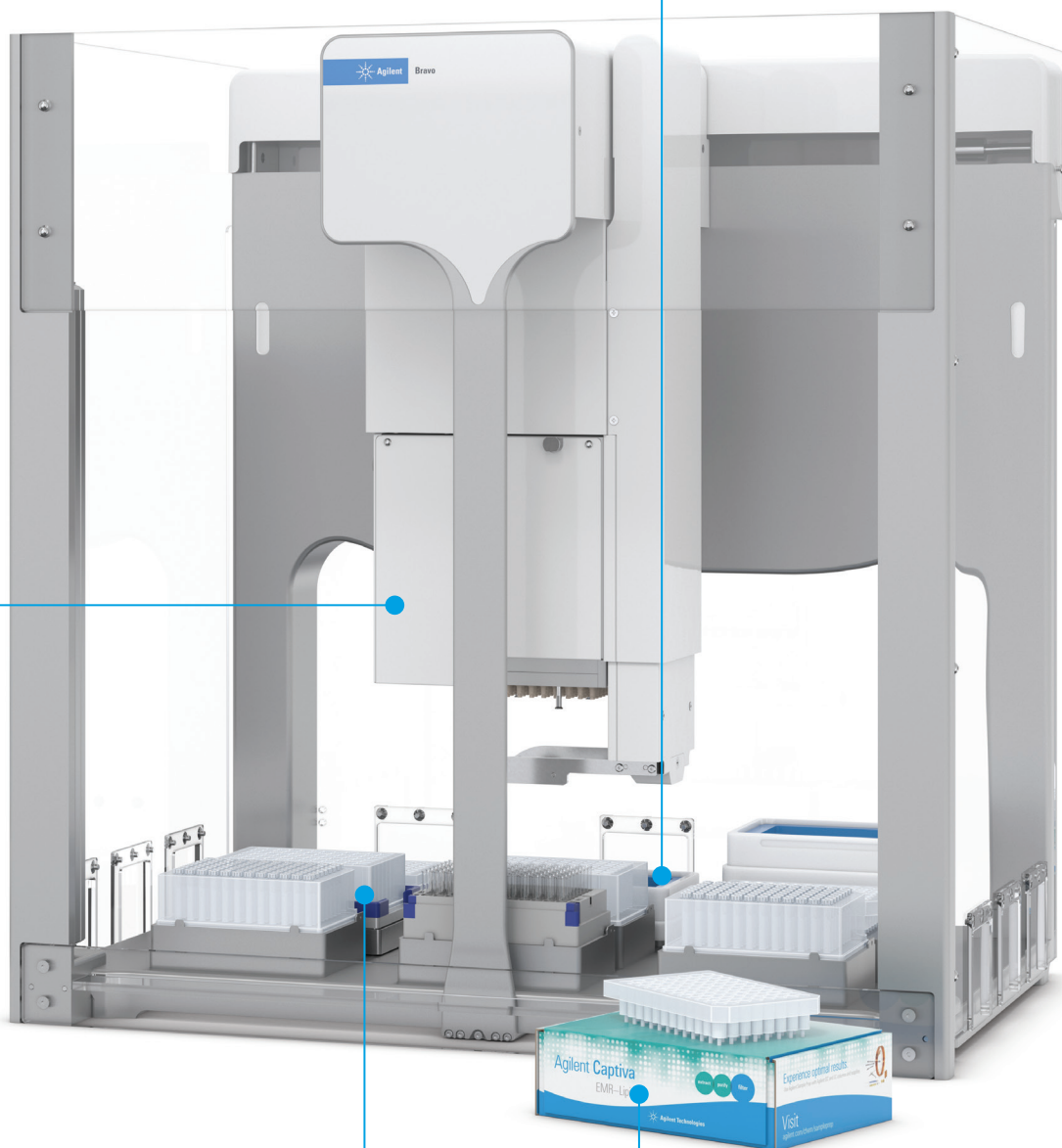
## Agilent Bravo Metabolomics Sample Prep Platform

### 96LT disposable tip head

Provides precise, accurate, and consistent liquid transfers across a wide volume range (2–250  $\mu$ l).

### Vacuum station

Makes automated vacuum filtration applications simple, quick, and highly reproducible.



### Orbital shaking station

Automatically shakes labware for a specified length of time.

### Captiva EMR—Lipid 96-well plates

Provides highly selective and efficient lipid/matrix removal without unwanted analyte loss.

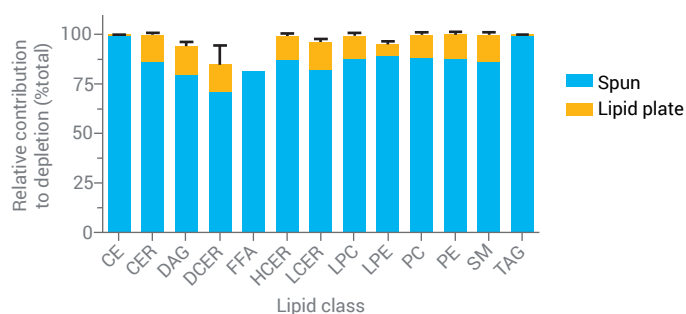
# See the Difference Automation Can Make in Your Metabolomics Analysis



Streamlining your workflow with the Bravo Metabolomics Sample Prep Platform can help you process large amounts of samples—while achieving consistent, quality results.

## Efficient lipid removal

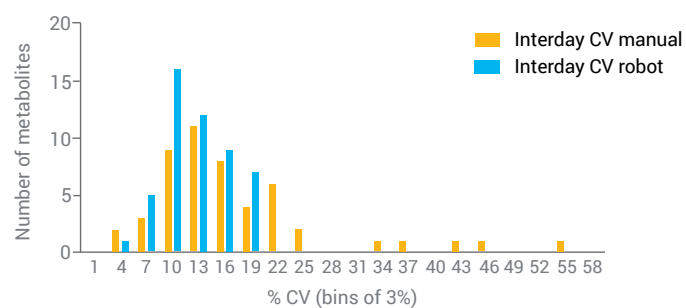
Novel Captiva EMR—Lipid technology removes lipids based on a combination of size exclusion and hydrophobic interaction. Effective lipid removal assures minimal ion suppression of target analytes, which significantly improves method reliability and ruggedness. Captiva lipid depletion and sample cleanup increase metabolite signal intensity.



The Captiva EMR—Lipid plate removes lipids more efficiently than centrifugation alone across major lipid classes.

## Better data reproducibility

Automated sample preparation ensures better consistency across samples, batches, and users. That means lower CVs, less variability, fewer replicates, and more trustworthy results.



A comparison of the top 50 metabolites by lowest CVs from manual extraction and from automated extraction across different days.

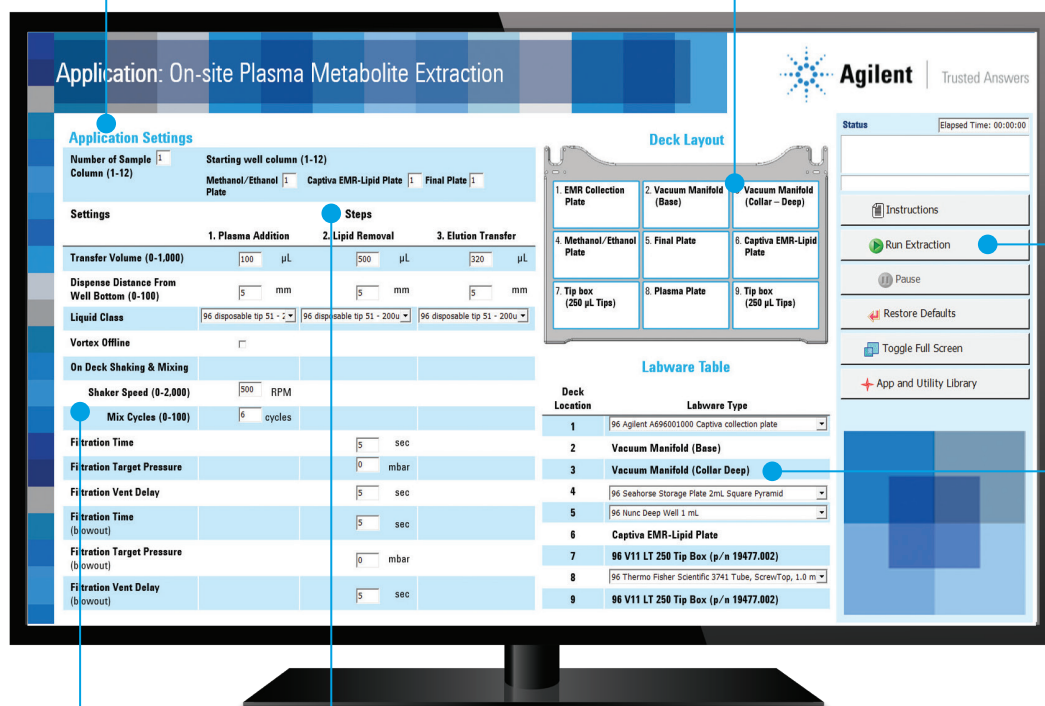
# Dedicated, Intuitive Software Enables Smooth Implementation, Regardless of Skill Level

Agilent Bravo Metabolomics Workbench software puts the power of automation at your fingertips. Using a form-based interface, you can quickly and easily process samples for downstream analysis.

What's more, the Bravo Metabolomics Workbench software requires no complex programming, allowing any user to walk up and start the automated sample preparation. So you can get consistent results easier than ever before.

Easy-to-use software interface reduces training costs—and is designed for plasma sample preparation

Deck layout guides the user to set up the deck correctly



Start your workflow with the click of a button

Select desired labware to complete the tasks in your protocol

Adjustable parameters to optimize your run

Streamlined automation control: Operate multiple automated sample prep steps for maximum throughput

## Agilent CrossLab: Real insight, real outcomes

CrossLab is an Agilent capability that integrates services, consumables, and lab-wide resource management. So your lab can improve efficiency, optimize operations, increase instrument uptime, develop user skill, and more.



Learn more:

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