

# Modular Solutions. Deeper Insights. One Bench.

Agilent automation solutions portfolio





# Save Time and Maximize Reproducibility

The power of automation is now accessible to any scientist. Innovative engineering, modular design, and intuitive software enable flexible workflows, while application-specific solutions feature an easy-to-use interface, optimized protocols, and preconfigured instrumentation.

You can also work with Agilent product specialists and automation engineers to configure instrumentation to meet your specific workflow needs.

## Automate complex biological, biopharmaceutical, and chemical analysis methods

### Genomics

- NGS library preparation
- PCR setup/cleanup
- DNA/RNA isolation
- Microarray-based sample preparation

### Proteomics

- AssayMAP microchromatography
- Protein analysis
- LC/MS sample preparation

### Screening

- High-throughput screening
- Hybridoma assessment
- High-content screening
- Compound management

### Cell biology

- Cell culture
- Cell maintenance
- Cell-based assays
- Transfections/transductions
- Gene editing

### ADME/TOX

- Caco-2 permeability
- Cyp450 inhibition
- Cytotoxicity
- Microsomal stability assays

For information on automating your application, contact Agilent today: [www.agilent.com/chem/contactus](http://www.agilent.com/chem/contactus)

# Designed to Make Life in the Lab Easy

The Agilent Bravo liquid handling platform represents the strength and core of the Agilent automation portfolio. It combines microplate-based liquid handling with unparalleled versatility and speed—all in a compact footprint.

Features of this automated liquid handling system include interchangeable 96- and 384-channel pipetting heads as well as the AssayMAP microchromatography head. A vast array of deck accessories and application-specific configurations with validated protocols make this the most capable handler available.

## Bravo liquid handler

A versatile, configurable platform for sample preparation



## AssayMAP Bravo

Preconfigured microchromatography platform for mass spectrometry and biochemical sample preparation



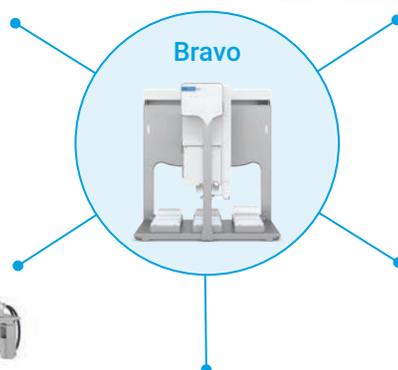
## Bravo NGS

Preconfigured for next-generation sequencing library preparation



## Metabolomics Bravo

Preconfigured for metabolite and lipid extraction from blood plasma or cells for mass spectrometry analysis



## Bravo NGS workstation

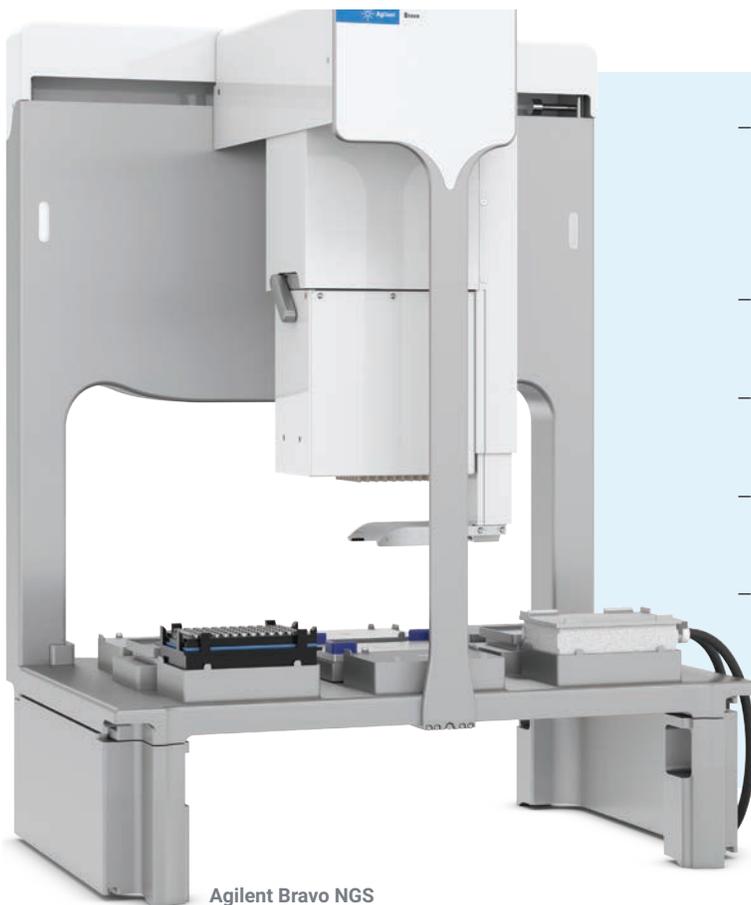
High-throughput next-generation sequencing library preparation



## High Throughput for Genomics and Molecular Biology

The Agilent Bravo NGS is built on the consistency and dependability of the Bravo automated liquid handler. It is preconfigured for genomic target enrichment and next-generation sequencing (NGS) library preparation. An intuitive interface allows users to quickly access a curated collection of pre-optimized protocols, while giving advanced users the flexibility to create custom protocols.

For high-throughput needs, the Bravo NGS workstation adds microplate-handling capabilities. It is controlled by the same software as the Bravo NGS, so your lab can upgrade seamlessly.



Agilent Bravo NGS

- Automate quickly with ready-to-use protocols and predeveloped methods for Agilent SureSelect, Agilent HaloPlex, Illumina TruSeq, NuGEN Ovation, KAPA HTP, PacBio SMRTbell, NEBNext, and more.
- Easy-to-use interface requires no programming expertise to run your automated methods.
- Consistent data quality allows you to increase your throughput with consistent results, every time.
- Prepare up to 10 times more samples in the same amount of time.
- Walk-away automation reduces hands-on work by five times compared to a manual workflow.
- Open platform allows you to confidently automate more NGS or genomics methods.

## Automated Protein and Peptide Sample Preparation

The Agilent AssayMAP platform is a powerful, yet easy-to-use, automated microchromatography platform. The system consists of a precision liquid handler with 96 syringes, packed-bed cartridges, and intuitive software with pre-optimized sample preparation protocols. Together, these components let you prepare 1 to 96 samples with all the advantages of chromatography.

- Improve reproducibility by reducing sample preparation variability.
- Reduce tedious manual steps and free up time for more critical work.
- Maximize throughput without increasing variability or labor costs.
- Seamlessly transfer from person-to-person, lab-to-lab, and site-to-site.
- Obtain higher yields from lower volumes of sample.



Agilent AssayMAP platform



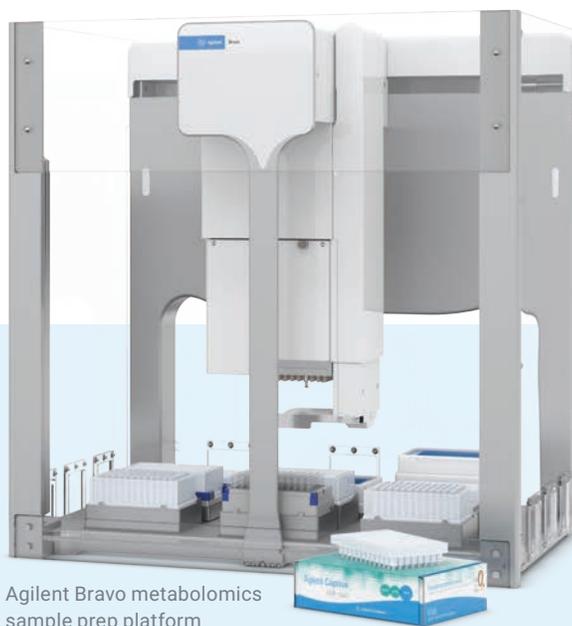
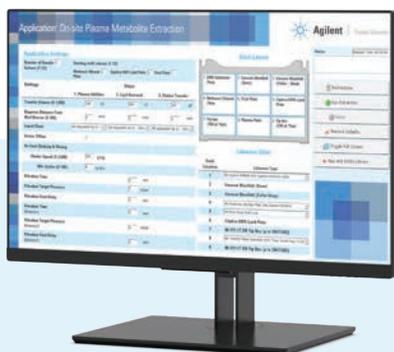
### The AssayMAP platform is based on three key elements:

- Microchromatography cartridges with a wide range of standard chemistries
- The Bravo automated liquid handler equipped with proprietary, positive-displacement probe syringes
- Intuitive software designed for simplicity in an open access environment.

## Greater Consistency, Fewer Replicates

Manual sample preparation for metabolomics research is subject to variations between different batches and users. Automation increases throughput, consistency, and reproducibility—resulting in fewer needed replicates.

The Agilent Bravo metabolomics sample prep platform is a state-of-the-art liquid handler equipped with on-deck accessories and software designed to automate metabolomics sample preparation procedures. And it is built upon the dependable performance of the Bravo liquid handler.

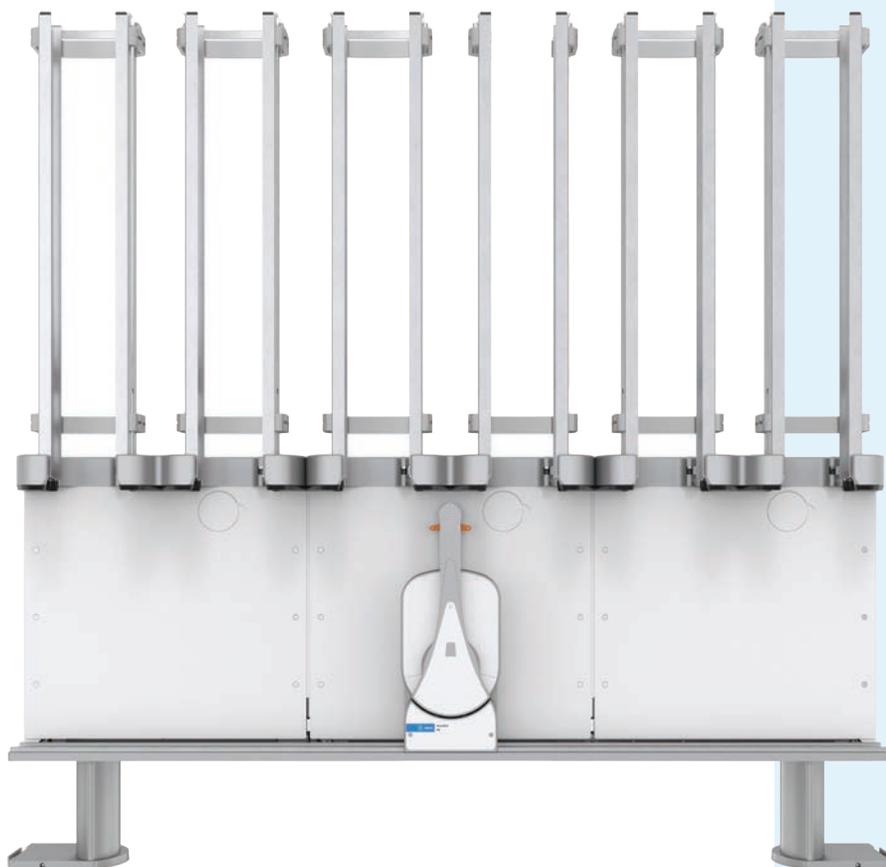


Agilent Bravo metabolomics sample prep platform

- The platform includes all hardware, accessories, and software in a compact footprint.
- Standardized, reproducible protocol delivers consistent data and lower CVs across runs and users.
- Scalability allows increased throughput without sacrificing the quality of your results.
- Software features a simple, intuitive interface that helps users of all levels start and run the protocol quickly.
- Compatible with any LC/MS system that supports plate format.

## Meet Your Growing Needs with Modular Microplate Processing

Do you want to make your routine microplate workflow easier and more reliable? Accelerate your research with Agilent BenchCel Workstations. At the center of each workstation is the BenchCel microplate handler, designed to streamline your high-throughput applications and give you more unattended time.



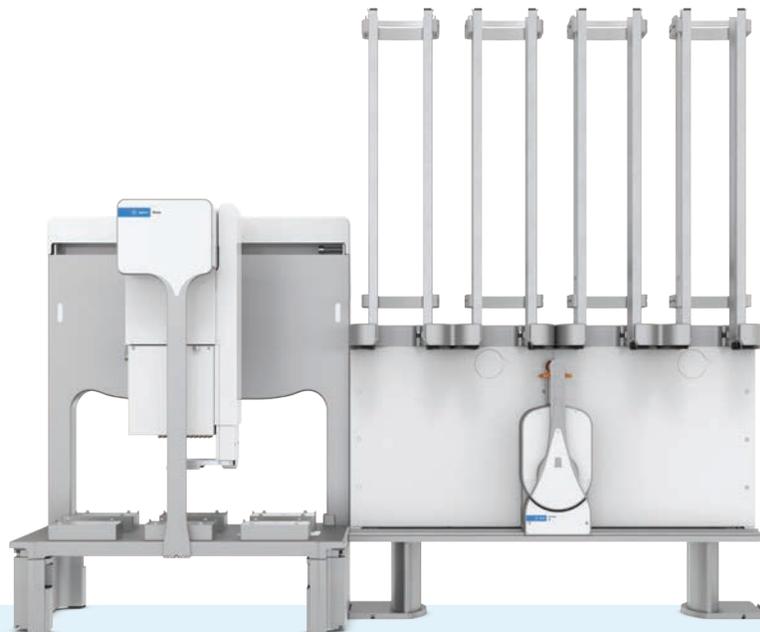
Agilent BenchCel microplate handler

- All workstations integrate with numerous Agilent devices, including the Agilent Bravo automated liquid handling platform.
- Perform high-speed transfers—as low as eight seconds—from stack to instrument.
- A choice of two, four, or six labware racks let you scale your operations.
- Adjustable plate capacity handles up to 60 standard SBS microplates per rack.
- Multiple labware rack options include top and front-loading in different sizes.
- Available configurations address common microplate applications such as plate sealing, barcode labeling, serial dilution, and plate replication.

## Greater Capacity, More Walk-Away Time

The Agilent Bravo BenchCel workstation combines the automated liquid handling functions of the Bravo platform with the microplate stacking abilities of the BenchCel workstation. And that allows you to process high numbers of microplates in a small footprint.

The BenchCel workstation reaches high processing speeds while maintaining accurate, precise pipetting—saving you both time and reagents.



Agilent Bravo BenchCel workstation

- Two, four, or six stacker configurations enhance scalability.
- Precise pipetting ensures highly accurate and reproducible transfers.
- Platform can be integrated with Agilent PlateLoc thermal microplate sealer, microplate barcode labeler, microplate centrifuge, and Labware MiniHub.
- Liquid handling capabilities enable high-throughput workflows such as microplate replication and serial dilutions.
- Save time with eight-second transfers from stack to instrument.
- Adjustable plate capacity handles up to 60 standard SBS microplates per rack.

# More Ways to Maximize Microplate Handling Efficiency

Agilent microplate management instruments are designed for speed, reliability, and simplicity. Their small footprint and easy access make them ideal for robotic integration.



## Agilent PlateLoc thermal microplate sealer

Delivers the ultimate in microplate-sealing technology for standalone or integrated operation. Agilent's diversity of seals, precision time/temperature control, unique instrument options and array of plate adapters combine to seal nearly every microplate you could possibly have. (Part number G5585AA/GA)



## Agilent microplate labeler

Label up to four sides of most compatible labware with a wide range of fonts, linear barcodes, and 2D matrix codes. The small footprint, easy-to-access plate stage, and straightforward device drivers make it an excellent choice for integration projects. With the optional barcode reader, the microplate labeler can verify and re-apply barcode labels, as well as clone existing labels or perform systematic microplate tracking. (Part number G5581AA/GA)



## Labware MiniHub

This rotating, random-access microplate hotel stores and presents SBS-footprint labware for automated microplate handling systems. The MiniHub features user-configurable shelf spacing that easily accommodates a mix of microplates, reservoirs, deep-well plates, and pipette tip boxes while maintaining a compact footprint. (Part number G5584AA/GA)



## Agilent microplate centrifuge

A compact, robot-accessible automated centrifuge with both vibration and noise control in a low-maintenance package. Customizable and rapid acceleration/deceleration, minimizes the required cycle time. (Part number G5582AA/GA)



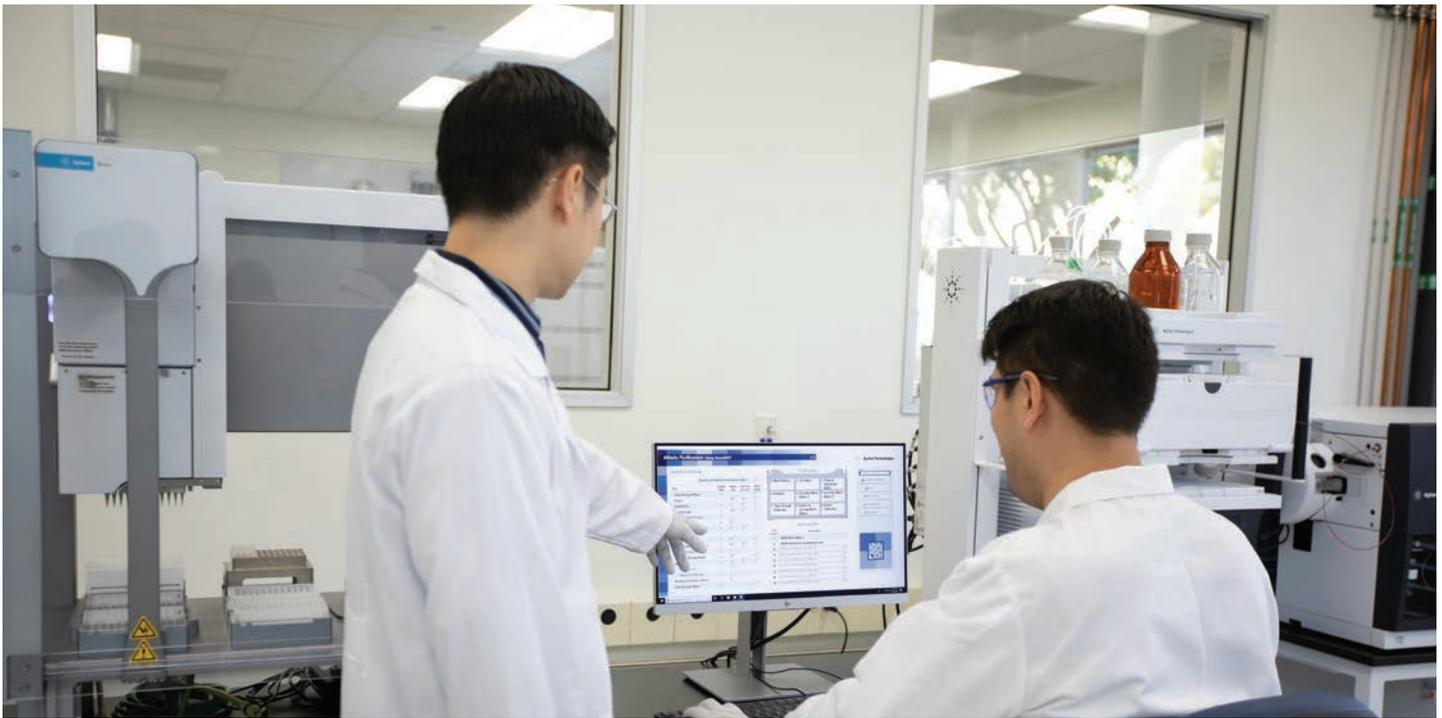
## Validated, application-proven consumables

Achieve the best performance from your Agilent lab automation instruments with our complete line of consumables: Bravo liquid handling tips, AssayMAP microchromatography cartridges, PlateLoc microplate seals and microplate labels.



## BenchCel microplate handler

With its high-speed robot and modular design, the BenchCel Microplate Handler provides the flexibility and scalability you need for diverse applications. What's more, it easily integrates with many laboratory devices.



## VWorks Lab Automation Control Software

# Driving the Integration of Laboratory Automation

VWorks software provides a single, intuitive user interface that seamlessly controls Agilent lab automation instruments. Combining the ultimate in flexibility and ease of use, VWorks empowers users to run validated protocols with the click of a button as well as easily develop custom methods with precision and total control.

In multiuser environments, validated workflows can be user-permission controlled (Standard) or secured (Plus) for total confidence in sample processing. VWorks protocols are fully transferable between instruments, facilitating easy scalability and method-transfer across multiple instruments and between lab facilities.

### Compliance-enabling VWorks Plus

VWorks Plus provides a suite of features to enable compliance for regulated lab environments. Following the guidance of U.S FDA CFR Title 21, Part 11 and E.U Annex 11, VWorks Plus provides:

- Electronic Signatures for controlled record progression
- Human readable sample processing reports
- Secure record storage
- Customizable user-permissions for diverse lab roles
- Audit trails and human-readable reports for traceability



## Put Our Insight to Work for You

CrossLab is an Agilent capability that integrates services and consumables to support workflow success, improve productivity, and enhance operational efficiency. In every interaction, we strive to provide insights that help you achieve your goals. We offer a wide range of products and services—from method optimization and training to full-lab relocations and operations analytics—to help you manage your instruments and your lab for best performance.

Learn more about CrossLab at [www.agilent.com/crosslab](http://www.agilent.com/crosslab)

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