

HPLC Made for Tomorrow

Agilent InfinityLab LC Series



Efficient and Reliable Solutions for Any Budget



Agilent InfinityLab LC Solutions provide the broadest range of liquid chromatography options for any application and budget. With perfectly matched instruments, columns, and supplies, you can trust in their rugged quality and robust results. The InfinityLab family is designed to work together to improve your workflow, increase efficiency, and reduce operational costs.



Table of contents



Benefits Overview

Unlocking advantages: Your benefits with InfinityLab LC Solutions

4–9

1290 Infinity III LC System

Benefit from ultimate separation power

10–13

1260 Infinity III LC System

Empower your routine analysis

14–17

1220 Infinity II LC System

Discover a compact solution for reliable results

18–19

Application Examples

Outstanding performance across all application fields

20–23

Software

Software solutions to make your analysis faster, easier, and more productive

24–25

Columns and Supplies

Perform rugged, fast LC with confidence

26

CrossLab Services

Focus on what you do best

27

Selection Guide

InfinityLab analytical LC modules for your laboratory's requirements

28–33

Application-Specific Solutions

Tailored solutions for your unique needs

34–35

Unlocking Advantages: Your Benefits with InfinityLab LC Solutions



Daily assistance

Agilent 1290 Infinity III LC and Agilent 1260 Infinity III LC come equipped with new, smart tools to help you simplify tedious manual tasks—from system and solvent management to sample tracking.



Confidence in results

With over 50 years of expertise in LC, you can trust the reliability of our instruments—consistently top-rated by your peers.



Investment protection

Advance with ease, at ease. All 1290 and 1260 Infinity III LC-based instruments are compatible with the previous generation, allowing for seamless upgrades and technology refreshes as needed.



Sustainability

Optimize lab space and reduce water, solvent, and energy consumption, while minimizing waste. Agilent InfinityLab LC Solutions are certified by My Green Lab, providing you utmost transparency of the environmental footprint of each system.

Accelerating lab productivity through digitalization

Agilent partners with you at every stage of your digital journey, delivering integrated solutions that streamline workflows, enhance connectivity, and transform laboratory potential into measurable performance.

<https://aglt.co/digital-lab>



Digital Lab

Assisting with Your Daily Routines: Features That Keep You Up and Running

At Agilent, we're committed to assisting you in overcoming your liquid chromatography challenges and streamlining your daily tasks. Our 1290 and 1260 Infinity III LC systems are equipped with smart tools designed to simplify laborious manual processes, reduce unplanned system downtime, and enable you to maintain control of your LC from anywhere, anytime.

Assisted workflows

Discover a world of convenience, reduced errors, and heightened efficiency in your daily lab work. Agilent InfinityLab Assist offers:

- **Customized assistance:** Streamline solvent handling, task execution, and sample tracking. Whether automating routine tasks or receiving real-time system health updates, you can tailor your experience.
- **Error reduction:** Bid farewell to manual, error-prone activities. And if issues arise, follow the troubleshooting guide for swift problem solving.
- **Extended lifespan:** Regular maintenance routines prevent potential problems, prolonging your instrument's life. Novice scientists can rely on guided instructions.
- **Seamless control:** Monitor and manage your LC system effortlessly—directly on the system or remotely via PC or mobile devices.
- **Backward compatibility:** Existing 1290 and 1260 Infinity II LC systems can also benefit from the new Agilent InfinityLab Assist technology with a simple hardware upgrade.
- **Gradient flush:** Add an optional gradient flush step to remove persistent contamination before equilibration; improves baseline and reduces reruns.



Get assistance through intuitive instrument interactions.



Monitor instrument status from anywhere, anytime.

Watch assistance video now
<https://aglt.co/assistance-video>





No more running dry

With Agilent InfinityLab Level Sensing, you can be confident that enough solvent is available for every run, reducing the burden of costly repeat analyses.



Safe sample data journeys

Your sample data can be linked seamlessly. Streamline sample handling and sample data linking throughout sample preparation and analysis directly at your lab bench with the Agilent Advanced Sample Linking (ASL) solution.

Place samples anywhere and have peace of mind

Say goodbye to vial position worries. With the Agilent InfinityLab Sample ID Reader, your 1290 or 1260 Infinity III Multisampler becomes even smarter. Simply add the Sample ID Reader, and your samples will be identified via QR codes on the vials.





Intelligent System Emulation Technology (ISET) facilitates seamless method transfer from any legacy HPLC or latest UHPLC methods.



Agilent BlendAssist Software automates buffer blending for consistent results while automating methods.



Biocompatible material for use in biopharma and applications using high salt and extreme pH conditions.



Agilent Buffer Advisor Software provides a fast and easy way to create pH and salt gradients.



Bio-Inert—metal-free components in the sample flow path ensure the integrity of your biomolecules.



Agilent Multipurpose Valve enables automation of functions like switching the mixer, flushing the filter, and purging to reduce manual interactions.

Besides these, there are many other features that help with your daily HPLC routine.

Download eBook

<https://aglt.co/5994-7524EN>

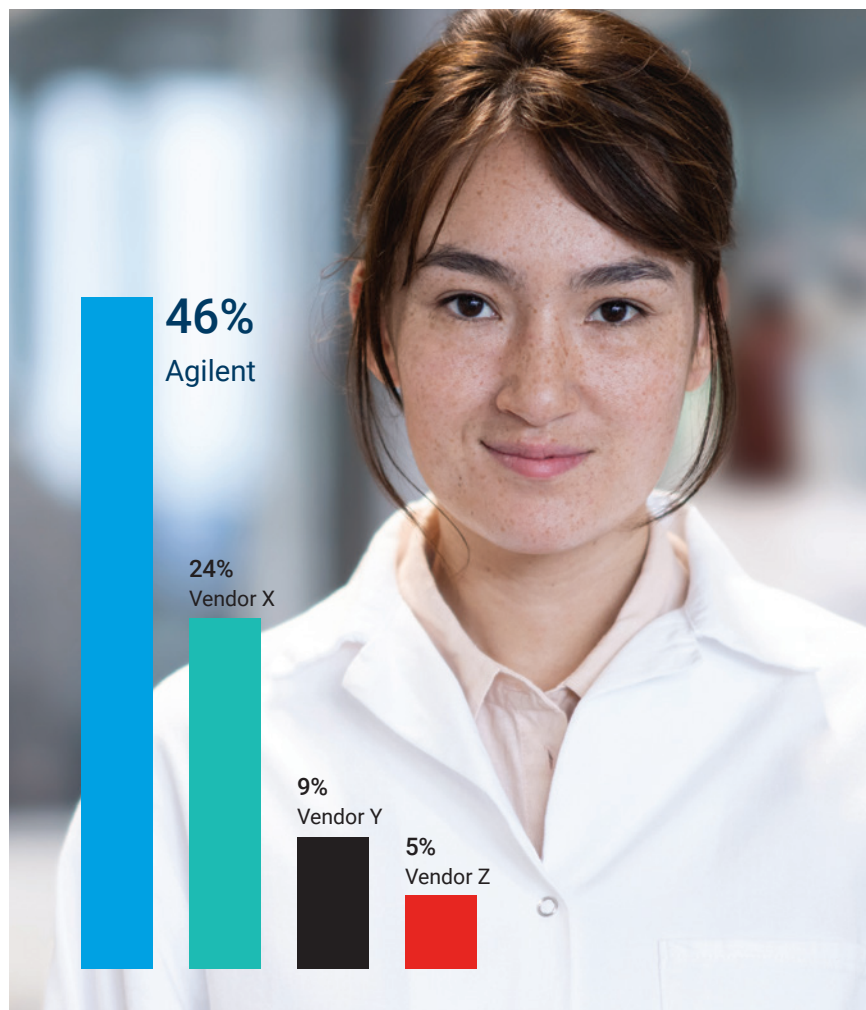


Achieve **Confidence in Results**

“It just never fails.”

That’s how users perceive the world’s top-selling LCs from Agilent.

From solvent delivery through sample injection to detection, InfinityLab LCs deliver reliable and robust performance—for highest confidence in your daily results and business decisions.



Agilent LC instrumentation cited as most reliable in “Liquid Phase Separation Instruments & Trends” survey 2024

Bi-yearly survey commissioned by Agilent, conducted by Cell Associates in partnership with LCGC in 2012–2024. Agilent LC instrumentation have been named the most reliable since 2012.

Seamless instrument integration

When it comes to adding new instruments to the lab, no two paths are quite the same. Rest assured that Agilent will be with you every step of the way, so you can swiftly implement new technologies to their fullest potential.



Learn more

https://aglt.co/instrument_onboarding

Ensure **Smart Investments for Your Lab**



Purchase an InfinityLab LC system and be confident that you have made the best possible investment for today and tomorrow. Our new 1290 Infinity III LC and 1260 Infinity III LCs are designed with upgradability in mind. New modules are always compatible with the previous version for seamless upgrade and technology refresh. What's more, you can mix modules to match your application needs.

Make Your Lab **More Sustainable**

Agilent InfinityLab LC Solutions are designed to optimize lab space and reduce water, solvent, and energy consumption, while minimizing waste. By following My Green Lab guidelines and obtaining ACT Ecolabel 2.0 certification, we ensure transparency about our LC solutions' carbon footprint. Agilent is also committed to achieving net-zero greenhouse gas emissions by 2050.



Learn more

<https://aglt.co/my-green-lab>



Benefit from Ultimate Separation Power

The Agilent 1290 Infinity III LC is an ultrahigh-performance liquid chromatography (UHPLC) system offering rapid separation, high resolution, low dispersion, and unmatched sample capacity—for your most challenging application needs.

1300 BAR

ISET

Also available as biocompatible

BIO

- Ultralow dispersion option
- Option for PFAS analysis

1290 Infinity III LC with High-Speed Pump

1300 BAR

ISET

Also available as biocompatible

BIO

BLEND ASSIST

MULTIPURPOSE VALVE

1290 Infinity III LC with Flexible Pump



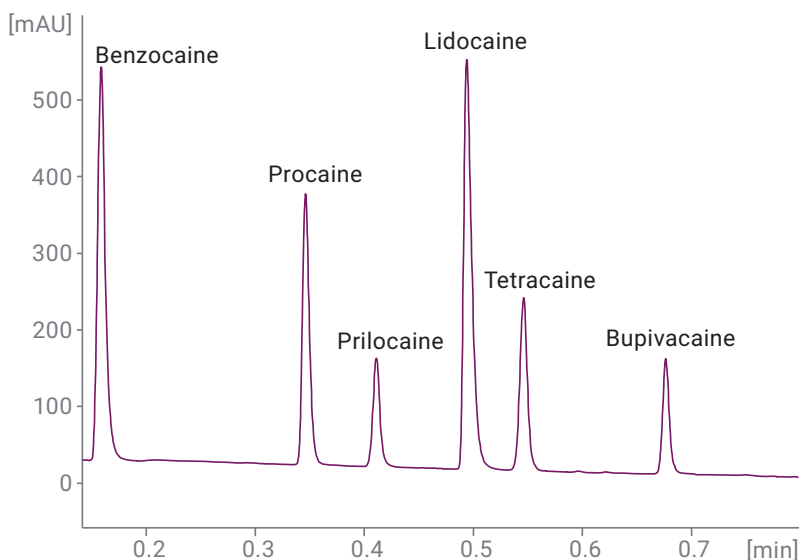
Identify, quantify, and uncover the unknown— discover your LC/MS perfect match

Lowest dispersion, fast and precise gradients, and highly reproducible flow rates and retention times make the 1290 Infinity III LC system your optimum front end for triple quadrupole and (Q-)TOF detection. These LC/MS systems are perfectly suited for highly specific and ultrasensitive analysis of drug impurities and metabolites, food safety, environmental contaminants, and forensics/toxicology.



Highest resolution

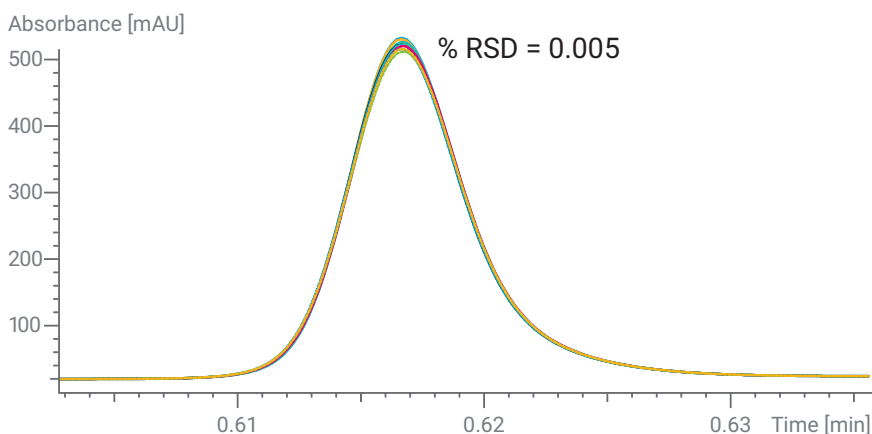
The 1290 Infinity III LC System is a UHPLC instrument designed for short run times. The entire flow path is optimized for low system volumes, enabling fast gradients and lowest extra-column band broadening. Specially designed components, such as needle seats, heat exchangers, column fittings, and flow cells, allow you to fully employ the power range of 1300 bar at 2 mL/minute. Data rates up to 240 Hz deliver uncompromised chromatographic resolution—even for your fastest separations.



Perform the fastest separations with the highest resolution, taking advantage of the lowest extra-column volume and highest detector data rate.

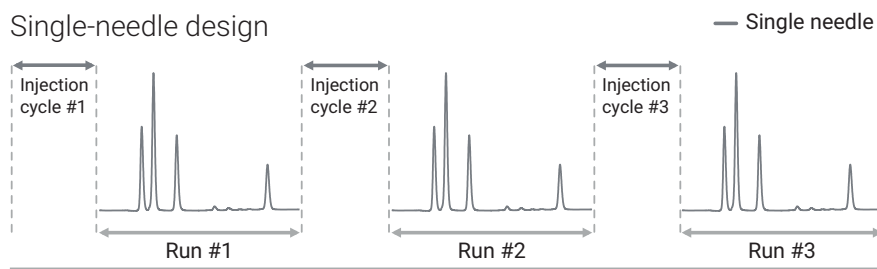
Highest retention time precision for reliable peak identification

The 1290 Infinity III High-Speed Pump and the 1290 Infinity III Flexible Pump deliver unmatched precision and accuracy of composition and flow rates for reproducible results, even when the gradients are shallow. Choose the High-Speed Pump for fastest gradient formation with ultimate precision and accuracy. Choose the Flexible Pump for highly reproducible gradients with up to four mobile phases. Superior gradient performance is delivered over the entire composition range from 1 to 99%.

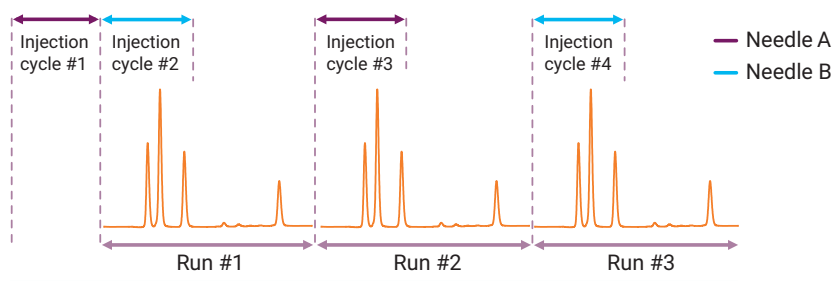


This overlay of 10 chromatograms shows superior retention time precision of 0.005% RSD with the 1290 Infinity III High Speed-Pump, even for ultrafast separations.

Single-needle design



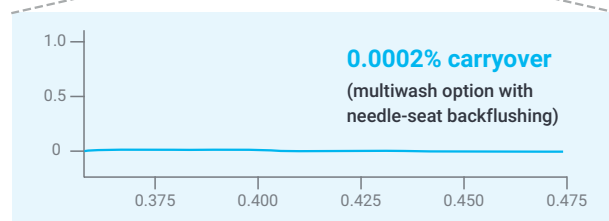
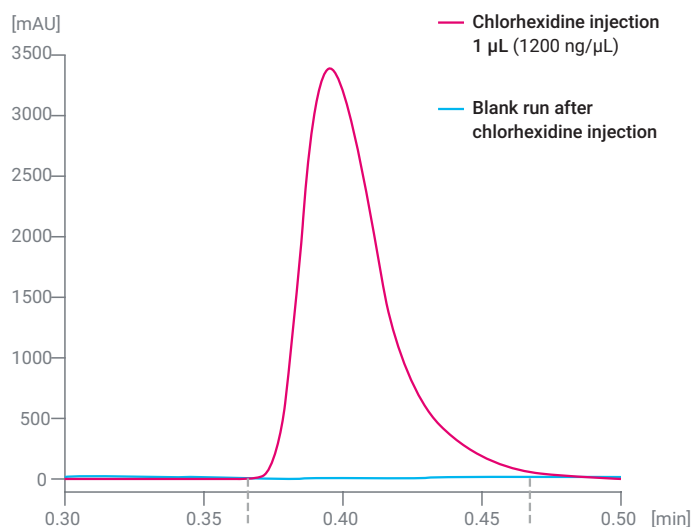
Dual-needle design



The dual-needle design of the 1290 Infinity III Multisampler eliminates wait times by overlapping injection cycles without compromising data quality from carryover or sample discrimination.

High sample capacity and fast injection cycles, low carryover

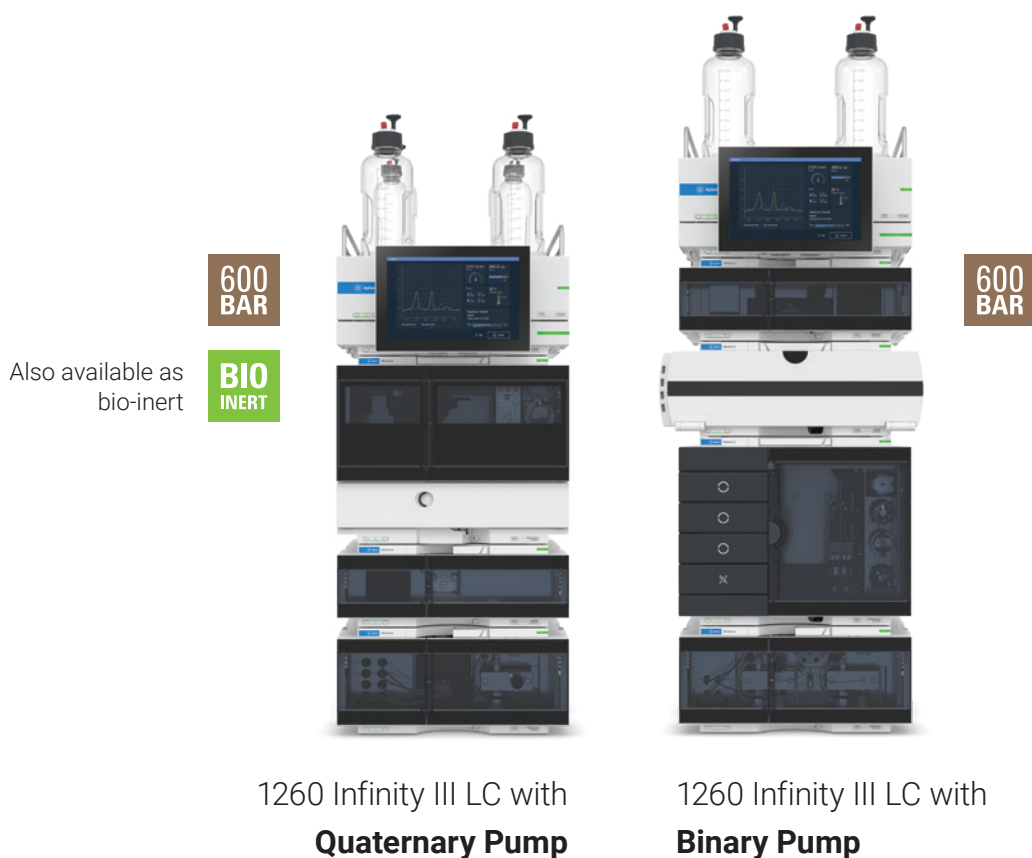
The 1290 Infinity III Multisampler accommodates up to 16 microtiter plates for a total capacity of 6,144 samples, or up to 432 vials. It also features an optional cooling system for sensitive samples. Equipped with dual-needle injection, the 1290 Infinity III Multisampler enables you to reduce cycle times to mere seconds. And with the multiwash option, you can reduce carryover to less than 9 ppm for the standard single- or dual-needle option.



Outer needle multiwash with up to three different solvents reduces carryover to near-zero, even with sticky compounds.

Empower Your Routine Analysis

The Agilent 1260 Infinity III LC System provides robust high-performance liquid chromatography (HPLC) with a wide range of modules for both analytical HPLC and entry-level UHPLC. It ensures reliable performance and robustness, instilling confidence in your results—making it a workhorse for your everyday routine analysis.



A woman with short dark hair, wearing a white lab coat over a dark turtleneck and blue safety glasses, is smiling and looking towards the camera. She is standing in a laboratory setting. To her left, a laboratory instrument with a screen displaying a graph is visible. The background is a bright, out-of-focus laboratory environment. A blue vertical bar is on the far left of the page.

Start your day with a system that's ready when you are

Automated system purge enables users to save money and time, while benefitting the environment. Only the necessary amount of solvent is used, which reduces waste and cuts costs. With fewer manual steps, the risk of operator error is significantly reduced, ensuring a smooth and reliable start every time.

Agilent 1260 Infinity III LC System



Robust and reliable solvent delivery

The 1260 Infinity III Quaternary Pump delivers pressures of up to 600 bar, making it suitable for a wide range of routine applications. The four-channel gradient valve established in the 1290 Infinity III Flexible Pump further enhances the precision of the retention time.



Stay on top of your regulatory requirements

The 1260 Infinity III LC portfolio is your ideal choice for any QA/QC lab. It combines robust HPLC hardware with compliance services and a wide range of Agilent control software options, all at an attractive price.



Flexibility for any application

Choose a detection technique that meets your application requirements. The 1260 Infinity III LC offers you a broad range of detection options, including UV-visible, fluorescence, refractive index, evaporative light scattering, or mass-spectrometry detection.

High-sensitivity flow cells for the diode array detector allow you to detect the lowest sample concentrations. Also available for the diode array and fluorescence detectors are special bio-inert flow cells, to guarantee safe data capture from your biological samples.

Fast routine analysis

The Agilent 1260 Infinity III Prime LC is the most capable and convenient LC within the 1260 Infinity III LC portfolio. Leveraging technology from the Agilent 1290 Infinity III LC system, it offers the highest ease-of-use and functionality for everyday analysis, including:

- Ultimate performance for flow rates up to 5 mL/minute and pressures up to 800 bar
- Seamless method transfer using ISET
- Fast optimization and simplified variation of solvent composition using Agilent BlendAssist software
- A hybrid multisampler with Agilent Feed Injection mode to mediate solvent effects



800
BAR

ISET

BIO

Also available as
biocompatible

BLEND
ASSIST

MULTIPURPOSE
VALVE

- **LC/MS-ready**
(ultraclean available)

1260 Infinity III **Prime** LC

A thumbnail image of a white paper titled "Improving Return on Investment in Liquid Chromatography with the InfinityLab LC Series". The thumbnail shows the title, a brief introduction, and a QR code. The QR code is located on the right side of the thumbnail. The background of the thumbnail is dark blue with a light blue accent at the top.

Download our **white paper** to learn how these capabilities can help you gain up to 80,000 USD of incremental economic value per year compared to a conventional LC system.

<https://aglt.co/improve-lc-roi>

Discover a Compact Solution for Reliable Results



Take a close look at the Agilent 1220 Infinity II LC and you'll find everything you need to get you on the fast track to result confidence—a high-quality, compact unit at an affordable price—for maximum return on investment.

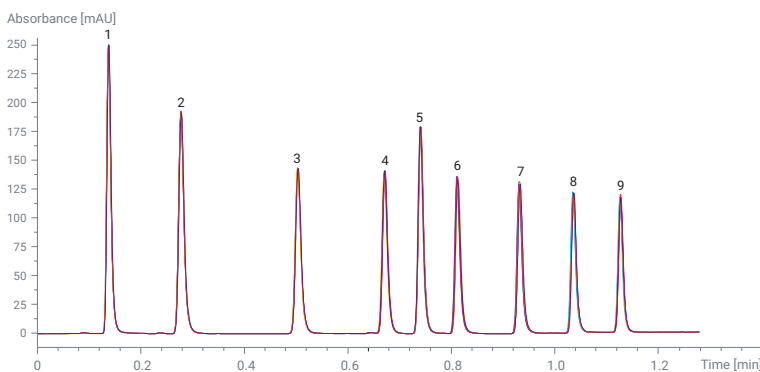
Flexible configuration

Choose from four integrated all-in-one configurations that include all the components you need to meet the requirements of your LC workflows. To increase instrument efficiency or meet future demands, a wide variety of upgrade paths are available.

Isocratic Configuration	Gradient Configurations		
Isocratic Pump	Gradient Pump	Gradient Pump	Gradient Pump
Manual Injector	Manual Injector	Autosampler	Autosampler
...	...	Column Oven	Column Oven
Variable Wavelength Detector	Variable Wavelength Detector	Variable Wavelength Detector	Diode Array Detector

Precise and reliable solvent delivery

The 1220 Infinity II LC Pump ensures stable, virtually pulse-free solvent flow up to 10 mL/minute. A pressure range up to 600 bar even enables the use of columns with smaller particles for better resolution and faster run times.

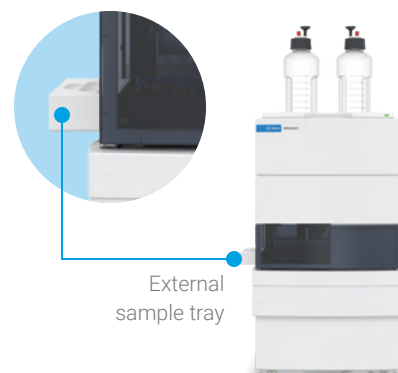


Peak	1	2	3	4	5	6	7	8	9
% RSD RT	0.149	0.096	0.070	0.090	0.060	0.106	0.097	0.073	0.059

Six overlaid consecutive analyses of a standard sample using an Agilent InfinityLab Poroshell 120 EC-C18, 3 x 50 mm, 2.7 μ m column with 1 μ L injection volume, demonstrating a fast gradient run at 563 bar with retention time precision less than 0.15% RSD.

Walk-up solution: Easy access for multiple users

Regardless of experience or skills, our walk-up solution gives everyone easy access to powerful LC separation and detection capabilities—including LC/MS. The external sample tray provides easy sample placement. The intuitive walk-up software works perfectly in tune with Agilent OpenLab CDS and Agilent MassHunter software to guide you through sample submission and method selection.



Mobile solution: InfinityLab quality where and when you need it

For mobile labs that need to measure samples at different locations or even remote sites, the Agilent 1220 Infinity II Mobile LC Solution provides an ideal configuration for onsite liquid chromatography analysis. A special mounting plate absorbs shocks and vibration during transport or operation. Columns and solvent containers are held firmly in place, preventing instrument damage and maintaining operator safety.



The Agilent 1220 Infinity Mobile LC Solution offers high reliability and fast analysis, even under challenging onsite conditions, making it the ideal LC system for fast response in the field.

Outstanding Performance Across All Application Fields

Agilent offers the versatility you need to address a wide variety of applications.

Pharma

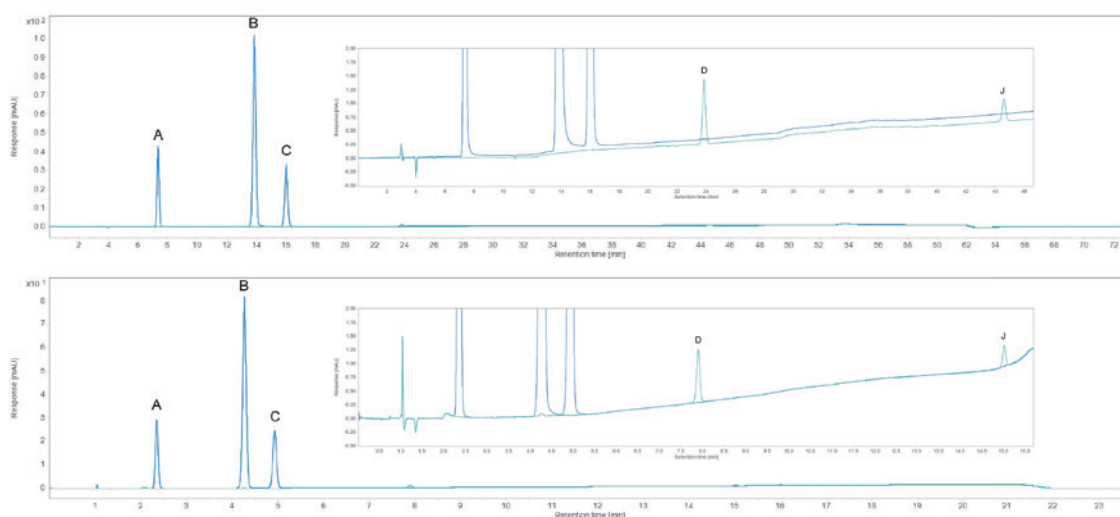
Reducing cost per injection for your USP compendial methods

Since the revision of Chapter 621 of the United States Pharmacopeia (USP) on chromatography, adjustments to chromatographic conditions in gradient elution liquid chromatography are allowed. This includes the transfer of gradient methods to UHPLC conditions. This application note demonstrates method transfer to UHPLC conditions for the analysis of organic impurities of acetaminophen.



Read application note

<https://aglt.co/5994-5897EN>



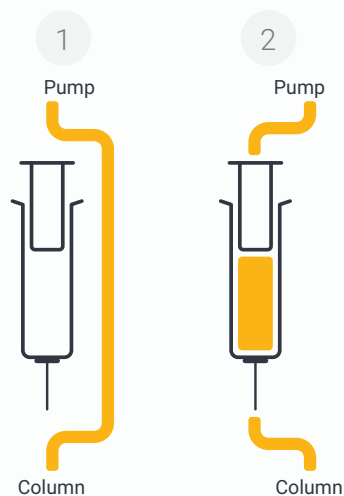
The demonstrated method transfer resulted in a 67.6% reduction of analysis time and 87.4% solvent savings per injection.

Download eBook

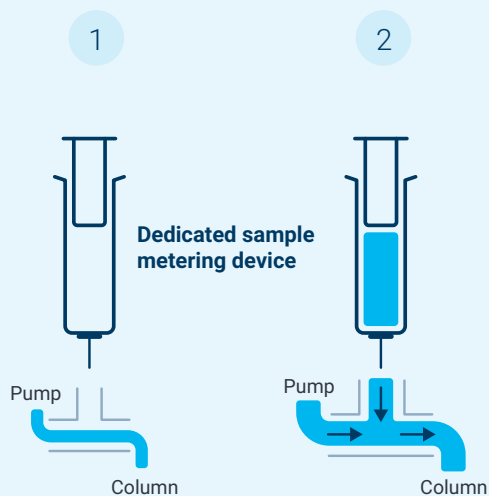
<https://aglt.co/5994-4287EN>

The eBook is a guide to targeted quantification and screening of PFAS compounds in environmental matrices.

A. Flow-through injection



B. Agilent Feed Injection



Classic flow-through injection (A) versus Agilent Feed Injection (B).



Read application note

<https://aglt.co/5994-6994EN>

Food Testing and Agriculture

Sensitive quantification for your PFAS analyses

Compared to classical flow-through injection, Agilent Feed Injection allows significantly higher injection volumes without negative effects on peak shape, even when the sample is dissolved in 100% organic solvents. This application note demonstrates its use in the analysis of per- and polyfluoroalkyl substances (PFAS). Increased peak areas enable lower detection limits, which increases the reliability of quantification.

Biopharma

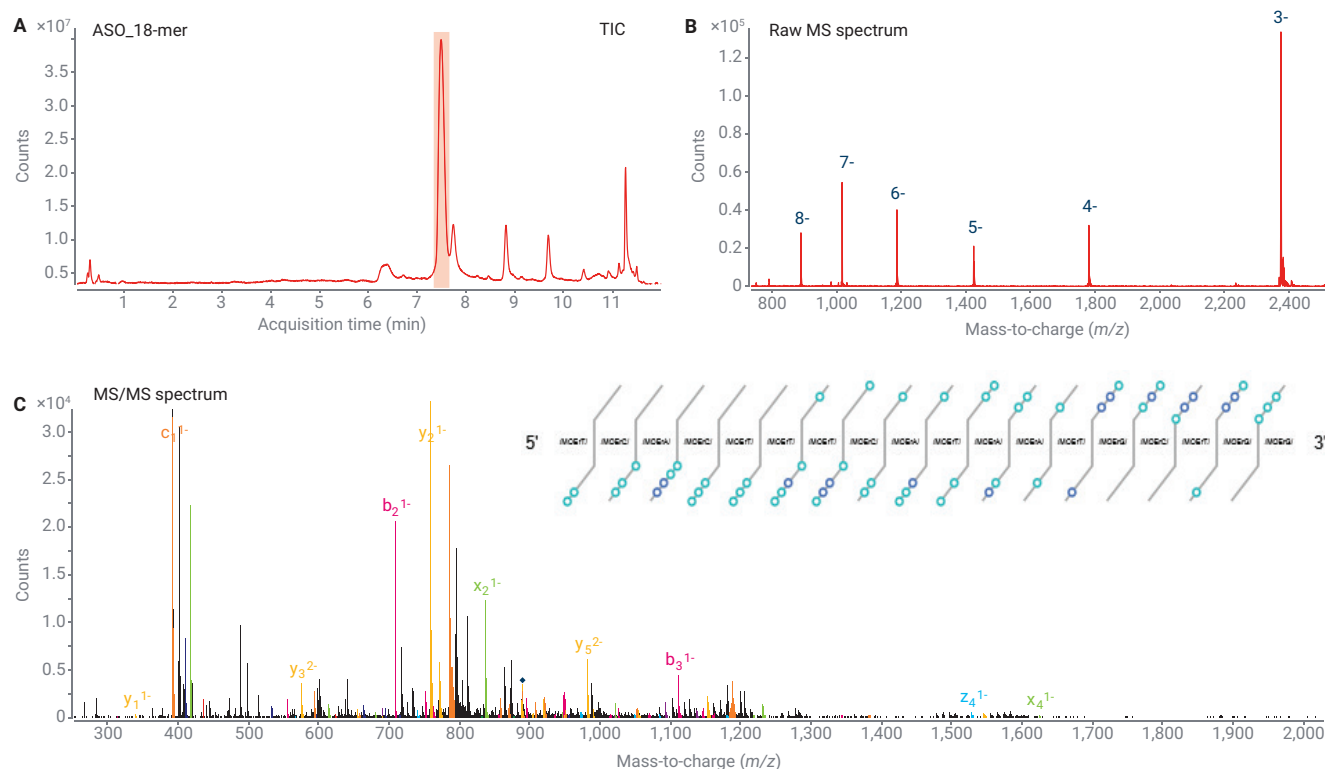
Comprehensive and integrated workflow for your oligonucleotide sequences

LC/MS has become a powerful technique for synthetic oligonucleotide analysis. A comprehensive characterization of an oligonucleotide sample can be a challenging and time-consuming process, while increasing the identification accuracy and confidence significantly. With the Agilent integrated workflow, 100% sequence coverage for all analyzed oligonucleotides is possible with a single injection.



Read application note

<https://aglt.co/5994-5071EN>



LC/MS/MS analysis on oligonucleotide with specific modifications (ASO_18-mer). (A) Total ion chromatography (TIC) of ASO_18-mer. (B) Raw MS spectrum of ASO_18-mer. (C) MS/MS spectrum of ASO_18-mer with Fragment Confirmation Ladder displayed.

Cannabis

Determination of pesticides and mycotoxins for your cannabis flower analyses

Following the legalization of recreational cannabis use in various U.S. states in recent years, respective lawmakers have introduced their own unique state legislation for acceptable levels of contaminants. Agilent offers a robust LC/MS/MS method and sample preparation workflow that reliably meets down to 50% of the respective states' legalized recreational legislative action limits for pesticide and mycotoxin content for cannabis dried flower samples.



Read application note

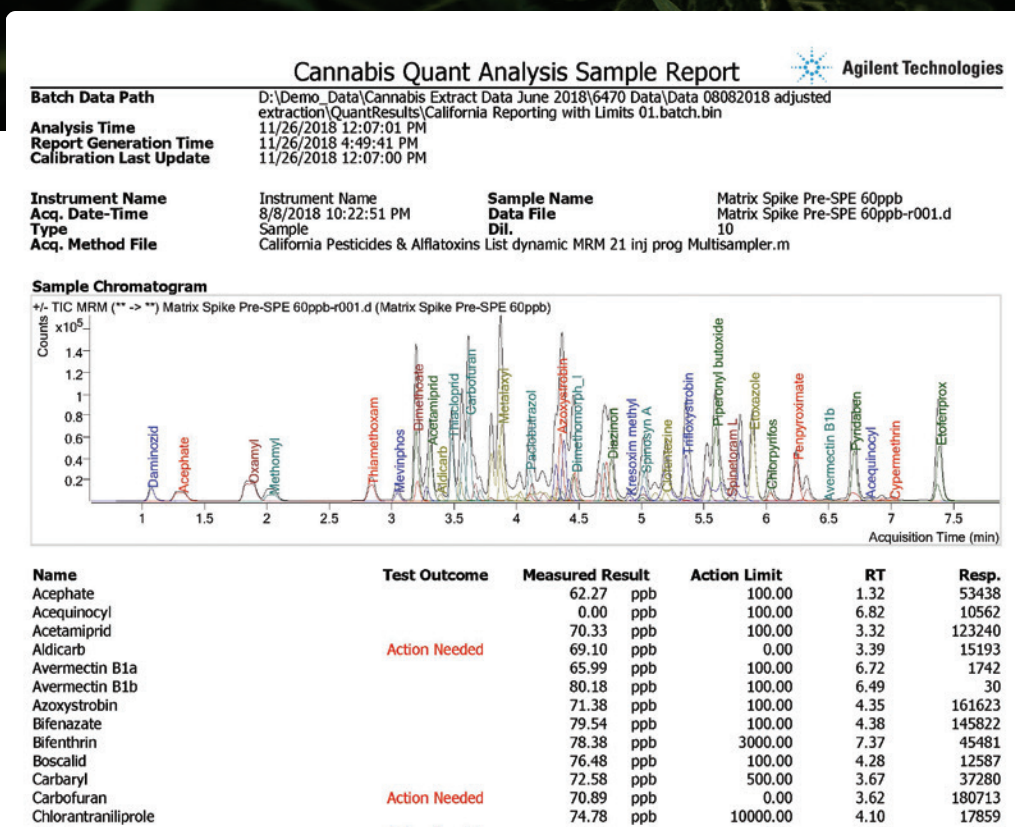
<https://aglt.co/5994-1734EN>

Find the latest information on our website:

<https://aglt.co/cannabis-testing>



Agilent products and solutions are intended to be used for cannabis quality control and safety testing in laboratories where such use is permitted under state/country law.



Example of cannabis reporting template.



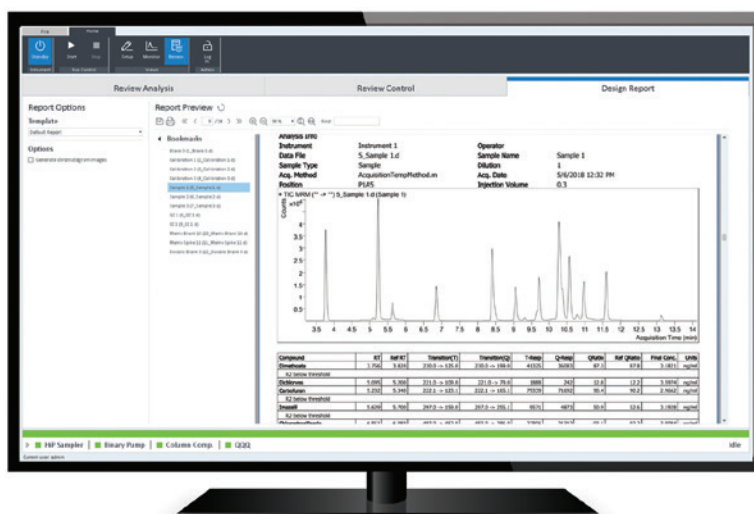
Software Solutions to Make Your Analysis Faster, Easier, and More Productive

Agilent delivers software solutions that support your LC and LC/MS workflows. Whether you're running routine analyses or managing complex sequences, Agilent software streamlines your work and delivers reliable results.

Streamline routines for everyday analysis

Agilent OpenLab CDS streamlines LC workflows by integrating instrument control, data integrity, and efficiency into a single chromatography software solution. It offers a powerful toolset for controlling Agilent InfinityLab LC instruments, complete with built-in technical controls to ensure data integrity and facilitate regulatory compliance. Plus, OpenLab CDS also enables efficient result generation for single samples or complex sequences, including blanks, calibration standards, and unknowns.

Agilent
OpenLab



Perform Rugged, Fast LC with Confidence

To maximize separation potential, Agilent offers precisely matched columns and supplies to enhance our InfinityLab LC solutions.

Agilent Altura HPLC columns



Altura HPLC columns use Agilent Ultra Inert technology to block active metal sites, delivering an inert flow path with the durability and consistency

of stainless steel. Packed with familiar AdvanceBio, Poroshell, or ZORBAX stationary phases – with the added benefit of inert column hardware, Altura columns unlock true separation performance—faster equilibration, lower carryover, and higher sensitivity for your most challenging metal-sensitive analytes.



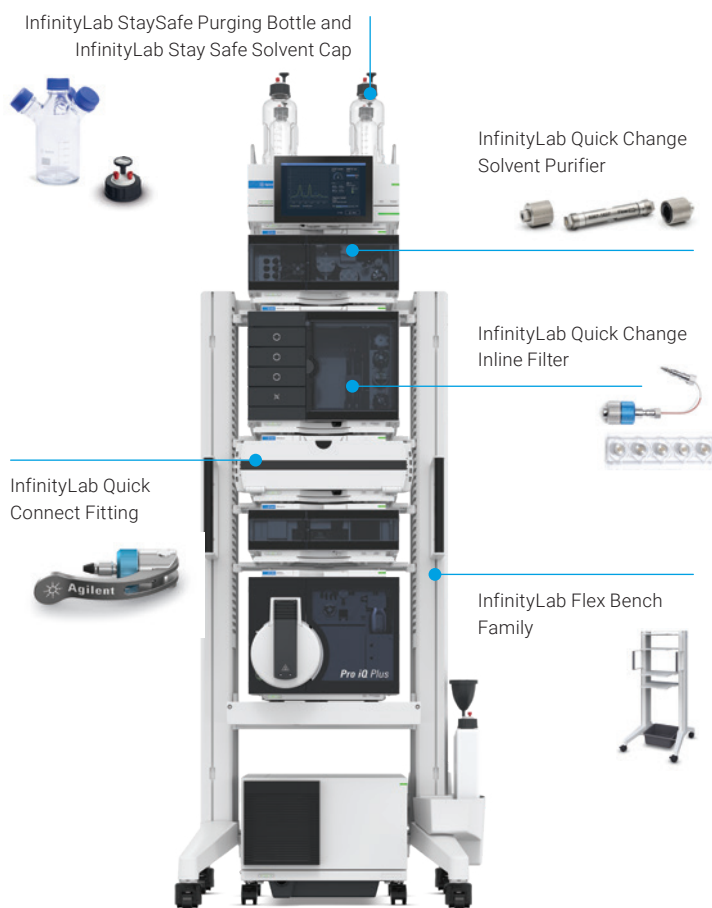
Agilent InfinityLab solvents for UHPLC and LC/MS

Agilent InfinityLab solvents for UHPLC and LC/MS are expertly formulated for analytical

UHPLC applications and shield against common contaminants—ensuring optimal performance and minimizing the risk of expensive downtime and repairs.

Agilent InfinityLab LC supplies

The small parts of your workflow can make a big difference in the quality of your results. Agilent InfinityLab supplies are designed to enhance the efficiency and ease of your daily tasks.



More information

<https://explore.agilent.com/essentialsupplies>

Focus On What You Do Best



With Agilent CrossLab, we partner with you to implement solutions that optimize your lab's performance and productivity. That is why you can rely on us to provide the tools you need and protect your investment, backed by a global network of experienced Agilent-certified service professionals dedicated to the productivity of your lab.



Service plans

Agilent CrossLab service plans provide comprehensive, customizable coverage to suit your specific needs and budget. We offer a range of service plans so that you can choose the level of coverage desired.



Compliance services

Agilent offers a comprehensive set of laboratory compliance services, including instrument qualification based on USP <1058>, analytical instrument qualification, and custom validation services.



Virtual tech support

CrossLab service plans enable customers to get live technical help. Our Virtual Assist application uses a secure connection and supports digital annotations, enabling clear instructions for remote problem solving to reduce your downtime.



Agilent learning services

Having productivity challenges? Agilent can help you optimize your method, train new staff, and bolster troubleshooting abilities with method consulting and education services.

The Agilent Service Guarantee

If we cannot fix an instrument covered by a CrossLab service plan, regardless of manufacturer, our escalation process will resolve the issue up to and including replacing your instrument for free.*

* Conditions apply.



Unlock your lab's full potential with CrossLab
[agilent.com/chem/crosslab](https://www.agilent.com/chem/crosslab)



The Agilent InfinityLab LC Series offers you an unmatched choice of instrumentation for liquid chromatography. Use this product selection guide to identify which configuration fits best to your laboratory's requirements.

LC module comparison

Not sure which modules suit your needs? This comparison table provides a high-level overview of four LC systems, including their main differentiating features and available modules so that you can choose only the modules that fit best.

	1290 Infinity III LC	1260 Infinity III Prime LC	1260 Infinity III LC	1220 Infinity II LC
InfinityLab Assist	✓	✓	✓	—
InfinityLab Level Sensing	✓	✓	✓	—
Maximum Operating Pressure	1300 bar	800 bar	400 or 600 bar	600 bar
Flow (mL/minute)	up to 5	up to 5	up to 5 or 10	up to 10
Multisampler with Dual-Needle Injection	✓	✓	✓	—
Multisampler with InfinityLab Sample ID Reader	✓	✓	✓	—
Binary Pump	High-Speed Pump*	—	✓	Dual-Channel Gradient Pump
Quaternary Pump	Flexible Pump**	Flexible Pump**	✓	—
BlendAssist Software (available for all Flexible Pumps)	✓	✓	—	—
Isocratic Pump	—	—	✓	✓
ISET (Method Transfer)	✓	✓	—	—
Multipurpose Valve (UHPLC)	✓	✓	—	—
UV (VWD, DAD, MWD), ELSD, RID and FLD	✓	✓	✓	✓
Mass Spectrometry Detection	✓	✓	✓	✓
Lab Advisor Software for LC Maintenance	✓	✓	✓	✓

* High-Speed Pump: a high-end binary pump, ideal for fast gradients, often used with MS

** Flexible Pump: a high-end quaternary pump, ideal for routine labs

Selection guide

Configure your analytical LC system

Instrument Control	InfinityLab Assist	InfinityLab Hub and Interface for status overview and dashboards for 1260 and 1290 Infinity II and III LCs	G7178A
Solvent Preparation	1260 Infinity II Degasser	Four channels; up to 10 mL/min flow; 12 mL internal volume per channel	G7122A
Solvent Delivery	1290 Infinity III High-Speed Pump	1300 bar up to 2 mL/min, ramping down to 800 bar at 5 mL/min; binary solvent mixing; integrated degassing unit; solvent selection valve	G7120A
	1290 Infinity III Flexible Pump	1300 bar up to 2 mL/min, ramping down to 800 bar at 5 mL/min; quaternary solvent mixing; integrated degassing unit	G7104A
	1260 Infinity III Flexible Pump	800 bar up to 5 mL/min; quaternary solvent mixing; integrated degassing unit	G7104C
	1260 Infinity III Binary Pump	600 bar up to 5 mL/min; integrated degassing unit; optional solvent selection valve	G7112B
	1260 Infinity III Quaternary Pump	600 bar up to 5 mL/min; 200 bar up to 10 mL/min; integrated degassing unit	G7111B
	1260 Infinity III Quaternary Pump VL	400 bar up to 5 mL/min; 200 bar up to 10 mL/min; integrated degasser unit	G7111A
	1260 Infinity III Isocratic Pump	600 bar up to 5 mL/min; 200 bar up to 10 mL/min; optional integrated degassing unit; solvent selection valve	G7110B
	1260 Infinity III SFC Binary Pump	Delivers supercritical CO ₂ and modifiers at up to 600 bar and 5 mL/min; binary solvent mixing; integrated degassing unit and two-solvent selection valve for channel B	G4782A
Valve Solutions	1290 Infinity Flexible Cube	For enhanced injection modes and advanced valve-switching applications such as online SPE	G4227A
	1290 Infinity III Valve Drive	Drive unit for any InfinityLab Quick Change valve head	G1170A
	InfinityLab Quick Change Valves	Available in stainless steel for high-pressure and ultrahigh-pressure applications up to 1300 bar as well as with bio-inert materials in flow paths for biochromatographic applications	List of product numbers*

* G4231A, G4231C, G4232C, G4232D, G4237A, G4234A, G4234C

LC Support Modules	1260 Infinity III SFC Control Module	Compresses CO ₂ and houses backpressure regulator; uses liquefied (analytical grade) or gaseous CO ₂ (beverage grade); low dispersion nozzle for full flow transfer to MS or ELSD	G4301A
UV Detection	1290 Infinity III Diode Array Detector	± 0.6 µAU/cm noise (60 mm Max-Light cartridge cell) or ± 3 µAU/cm noise (10 mm Max-Light cell); 240 Hz; spectra; 8 signals; 1 to 8 nm slit; 190 to 640 nm	G7117B
	1290 Infinity III Diode Array Detector FS	± 0.6 µAU/cm noise (60 mm Max-Light cartridge cell) or ± 3 µAU/cm noise (10 mm Max-Light cell); 120 Hz; spectra; 8 signals; fixed slit; 190 to 640 nm	G7117A
	1290 Infinity III Variable Wavelength Detector	± 1.5 µAU noise; time-programmable, 240 Hz (single wavelength detection); 2.5 Hz (dual wavelength detection); 190 to 600 nm	G7114B
	1260 Infinity III Diode Array Detector HS	± 0.6 µAU/cm noise (60 mm Max-Light cell) or ± 3 µAU/cm noise (10 mm Max-Light cell); 120 Hz; spectra; 8 signals; fixed slit; 190 to 640 nm	G7117C
	1260 Infinity III Diode Array Detector WR	± 7 µAU/cm noise; 120 Hz; spectra; 8 signals; 190 to 950 nm	G7115A
	1260 Infinity III Multiple Wavelength Detector	± 7 µAU/cm noise; 120 Hz; 8 signals; 190 to 950 nm	G7165A
	1260 Infinity III Variable Wavelength Detector	± 2.5 µAU/cm noise; 120 Hz (single wavelength detection); 2.5 Hz (dual wavelength detection); 190 to 600 nm	G7114A

Selection guide

Sample Injection	1290 Infinity III Multisampler	0 to 20 µL or 0 to 100 µL single-stroke injection at 1300 bar; up to 1500 µL with optional kits; sample capacity up to 432 vials and for up to 6144 samples; multiwash option for less than 9 ppm carryover; thermostating available; dual-needle option for highest throughput and flexibility	G7167B
	1290 Infinity III Vialsampler	0.1 to 20 µL (40 optionally); up to 120 µL with multidraw mode at 1300 bar; sample capacity up to 132 x 2 mL vials; optional integrated column compartment for column heating up to 80 °C; thermostating available	G7129B
	1290 Infinity III Hybrid Multisampler	Both classical flow-through injection and Agilent Feed Injection modes, with injection up to 1300 bar. Optional thermostating available	G7137B
	1260 Infinity III Multisampler	0 to 100 µL single-stroke injection at 800 bar; up to 1800 µL with optional kits; sample capacity up to 432 vials and for up to 6144 samples; multiwash option for less than 9 ppm carryover; thermostating available; dual-needle option for highest throughput and flexibility	G7167A
	1260 Infinity III Hybrid Multisampler	Both classical flow-through injection and Agilent Feed Injection modes injection, up to 800 bar. Optional thermostating available	G7167C
	1260 Infinity III Vialsampler	0.1 to 100 µL injection from vials at up to 800 bar; up to 1500 µL with optional kits; optional integrated column compartment for column heating up to 80 °C; thermostating available	G7129C
	1260 Infinity III Vialsampler	0.1 to 100 µL injection from vials at up to 600 bar; up to 1800 µL with optional kits; optional integrated column compartment for column heating up to 80 °C; thermostating available	G7129A
	1260 Infinity III Manual Injector	5 µL to 20 mL injection loops	G1328C
Column	1290 Infinity III Multicolumn Thermostat	20 degrees below ambient to 110 °C; up to four 30 cm columns and up to eight 10 cm columns; up to eight individual InfinityLab Quick Connect heat exchangers for standard-flow, high-flow, and ultralow dispersion; optional valve drive for InfinityLab Quick Change valve heads (up to 1300 bar and up to 8-column selection without replumbing)	G7116B
	1260 Infinity III Multicolumn Thermostat	10 degrees below ambient to 85 °C; up to four 30 cm columns; up to four individual InfinityLab Quick Connect heat exchangers; optional valve drive for InfinityLab Quick Change valve heads (up to 800 bar and up to 4-column selection without replumbing)	G7116A

Special Detection	1290 Infinity III Evaporative Light Scattering Detector	For subambient operation; flow range 0.2 to 5 mL/min; evaporator temperature 10 to 80 °C; nebulizer temperature 25 to 90 °C	G7102A
	1260 Infinity III Evaporative Light Scattering Detector	For subambient operation; flow range 0.2 to 5 mL/min; evaporator temperature 25 to 120 °C; nebulizer temperature 25 to 90 °C	G4260B
	1290 Infinity III Fluorescence Detector	Multichannel UHPLC fluorescence detector with online spectra, 160 Hz, 2000 hr lamp, fast wavelength switching (< 250 ms) and low noise and high sensitivity (Raman vs. signal noise > 2500 S/N and Raman vs. dark noise > 30,000 S/N), 2 or 13 µL flow cell	G7123B
	1260 Infinity III Fluorescence Detector Spectra	Multisignal fluorescence detector; online spectra; 4 signals; 148 Hz; 4000 h lamp; Raman (H ₂ O) > 500 (noise reference measured at signal); Raman (H ₂ O) > 3000 (noise reference measured at dark value)	G7121B
	1260 Infinity III Fluorescence Detector	One signal wavelength, 74 Hz; 4000 h lamp; Raman (H ₂ O) > 500 (noise reference measured at signal); Raman (H ₂ O) > 3000 (noise reference measured at dark value)	G7121A
	1290 Infinity III Refractive Index Detector	148 Hz; 1.00 to 1.75 RI range; ±600 x10 ⁻⁶ RIU measurement range; Noise < ±2.5 x10 ⁻⁹ RIU; < 1 h warm-up; 5 degrees above ambient up to 55 °C	G7162B
	1260 Infinity III Refractive Index Detector	74 Hz; 1.00 to 1.75 RI range; ±600 x10 ⁻⁶ RIU measurement range; Noise < ±2.5 x10 ⁻⁹ RIU; < 1 h warm-up; 5 degrees above ambient up to 55 °C	G7162A
Integrated LC Systems	1220 Infinity II Gradient LC	Dual-channel gradient pump, autosampler, column oven, and diode array detector	G4294B
	1220 Infinity II Gradient LC	Dual-channel gradient pump, autosampler, column oven, and variable wavelength detector	G4290B
	1220 Infinity II Gradient LC	Dual-channel gradient pump, manual injector, and variable wavelength detector	G4288B
	1220 Infinity II Isocratic LC	Single solvent pump, manual injector, and variable wavelength detector	G4286B



Tailored Solutions for Your Unique Needs

The Agilent InfinityLab LC portfolio offers complete solutions designed to meet your specific requirements, regardless of your application needs. Whether you're in biopharma, research, or any other field, Agilent provides customized solutions to enhance your workflow.



Bio LC solutions

Bio LC solutions comprise a full range of entirely biocompatible and bio-inert LC systems that enable robust, accurate bioanalysis from drug discovery and development to QA/QC. Complete the inert flow path with an Altura Ultra Inert LC column.



Select your column

<https://aglt.co/biopharma-lc-column-selector>





Method development

Accelerate your method development with dedicated hardware and software. Use up to 26 solvents and 32 columns to create more than 1,000 different sets of LC conditions.



SFC

Achieve superior resolution of stereoisomers through supercritical fluid chromatography with standard grade CO₂. Reduce your solvent waste and cut purchase and disposal costs.



Online LC

Support process design, analysis, and control through real-time measurement of critical process parameters (CPPs) and critical quality attributes (CQAs). Closely assessing CPPs and CQAs contributes to quality by design.

2D-LC

Solve your most challenging separations and analyze your most complex samples with the power of two dimensions and the ease-of-use of Agilent InfinityLab 2D-LC solutions. Bio 2D-LC is available for biological samples.



GPC/SEC

Analyze polymers and macromolecules with this versatile size exclusion chromatography (SEC) and gel permeation chromatography (GPC) system that provides accuracy and high performance.



Learn more:

www.agilent.com/chem/infinitylab-lc-series

Buy online:

www.agilent.com/chem/store

Get answers to your technical questions and
access resources in the Agilent Community:

community.agilent.com

U.S. and Canada

1-800-227-9770

agilent_inquiries@agilent.com

Europe

info_agilent@agilent.com

Asia Pacific

inquiry_lsca@agilent.com

DE-014326

This information is subject to change without notice.

© Agilent Technologies, Inc. 2024–2026

Published in the USA, April 27, 2026

5994-7151EN