Agilent InfinityLab LC Purification Solutions

PURIFY YOUR SAMPLES WITH MAXIMUM EFFICIENCY
For isolation and purification of your samples with highest purity and recovery, Agilent InfinityLab LC Purification Solutions offer high-performance instrumentation, columns, software, and services for analytical to preparative-scale workflows. A comprehensive and scalable portfolio based on a single platform gives you the choice to tailor a system to meet your laboratory’s current and future needs.

Efficient purification solutions from analytical to preparative scale

Agilent offers high-efficiency purification solutions for workflows ranging from analytical-scale compound isolation to preparative-scale purification of multiple grams.

A completely new comprehensive and scalable portfolio of state-of-the-art instrumentation is based on a single platform and backed by over 40 years of technology leadership in LC purification.

Agilent purification solutions are matched perfectly with InfinityLab columns and supplies. Control through OpenLAB CDS ChemStation software and support by CrossLab instrument and enterprise service plans maximize the efficiency of your purification workflows.

Tailor a system to meet your requirements and make a real difference to your laboratory’s operational efficiency.

Highest operational efficiency for your purification laboratory

At Agilent, we are passionate about helping you to solve your purification challenges. By focusing on the three facets of efficiency, our solutions guarantee your success.

- **Purification efficiency** – Achieve maximum purity and recovery with any InfinityLab LC purification solution. Don’t miss any compounds through a wide range of detectors, including mass-based fraction-triggering.

- **Instrument efficiency** – Purify milligrams to multiple grams of material — with no losses — through our scalable flow-rate and capacity offering. Improve your day-to-day operation with the clean and tidy setup.

- **Laboratory efficiency** – Leverage the small footprint and upgrade possibilities according to growing business demands. Ensure secure operations and protect your laboratory all the time through built-in safety features.
1220/1260/1290 Infinity II Analytical-Scale LC Purification Systems

Experience the power of analytical compound isolation
Isolate your compounds of interest through high-performance separation and low-dispersion fraction collection. Choose the bio-inert option for purification of your proteins or sensitive samples.

1260 Infinity II Preparative LC Systems

Benefit from efficient purification – every day
Achieve highest purity and recovery with the most affordable fraction collector. Get highest flexibility in fraction size while maintaining high-precision recovery.

1290 Infinity II Preparative LC Systems

Purify with the new benchmark in efficiency
Aspire to maximum efficiency in your purification workflows. Get maximum flexibility to solve all your purification challenges with highest purity, recovery, and speed.

<table>
<thead>
<tr>
<th>Productivity Range</th>
<th>Analytical</th>
<th>Semipreparative</th>
<th>Preparative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agilent 1220/1260/1290 Infinity II Analytical-Scale LC Purification Systems</td>
<td>Micrograms: 0.01 – 10 mL/min</td>
<td>Milligrams: 1 – 50 mL/min</td>
<td>Grams: 5 – 200 mL/min</td>
</tr>
<tr>
<td>Agilent 1260 Infinity II Preparative LC Systems</td>
<td>4.6 mm</td>
<td>10 mm (½ inch)</td>
<td>20–25 mm (1 inch)</td>
</tr>
<tr>
<td>Agilent 1290 Infinity II Preparative LC Systems</td>
<td>1</td>
<td>4.7</td>
<td>20–25</td>
</tr>
</tbody>
</table>

Flow range extensions made possible by exchangeable pump heads
Buy an InfinityLab LC Purification Solution from Agilent and you can be confident that you have made the safest possible investment. Seamless integration of instrumentation, column technology, and software ensure highest efficiency with utmost productivity.

**Future-proof investment**

InfinityLab LC Purification Solutions are based on a common platform. Choose from preconfigured systems, or opt for a tailor-made solution to meet your specific purification requirements for discovery, research, or small-scale production. Seamless upgrade paths enable you to increase capacity to meet changing demands.

**Sample recovery**

With InfinityLab LC Purification Solutions, your samples are 100-percent safe. Recovery collectors ensure that your valuable samples are not diverted to waste – everything goes to safe locations and can be recovered easily. Add a recovery collector to your purification system to protect your samples and increase your throughput, capacity, and productivity.

**Data confidence**

Agilent’s delay-sensor technology determines delay volumes automatically and ensures that fractions are collected just-in-time – without the need to collect extra volumes.

Any combination of time, peak, and mass-based fraction collection can be triggered by the detectors of your choice. Intelligent real-time data processing for instantaneous and precise fraction collection is guaranteed through the control area network (CAN).

Agilent fraction collectors are designed for lowest delay volumes to avoid peak dispersion and carryover between fractions, assuring highest purity and recovery for your fractions.
Ten of thousands of laboratories worldwide rely on Agilent LC purification solutions to deliver unmatched performance, productivity, and reliability for the isolation and purification of high-value compounds such as active pharmaceutical ingredients, peptides, proteins, and fine chemicals.

**Reliability for highest uptime**

When you partner with Agilent, you can rest assured you are investing in a relationship with proven and long-standing expertise in purification. We guarantee that every system is designed and manufactured with parts of the highest quality for highest uptime and minimum maintenance. Sophisticated built-in diagnostics and maintenance tools ensure reliable and secure operation. CAN networking provides modular intelligence for maximum flexibility.

Unique radio-frequency tags on detector lamps, flow cells, valve heads, pump heads, and on sample and fraction drawers and containers make system setup a straightforward task.

Comprehensive leak control in every module for complete laboratory safety.

Simple maintenance – easy front access to all user-maintainable parts.
The 1290 Infinity II Preparative LC System embodies the next generation of instrumentation for preparative LC, delivering the maximum in purification, instrument, and laboratory efficiency. Set the benchmark in your laboratory and boost your daily throughput.

- Automated calculation of focused gradient profiles for each target compound helps you to achieve highest purity and recovery.
- Our wide range of detectors for fraction triggering – including mass-based detection – ensure that you achieve maximum purity and recovery.
- The 1290 Infinity II Preparative Open-Bed Sampler/Fraction Collector optimizes bench space. Up to four modules per system can be clustered.
- Benefit from the built-in fraction delay calibration of all InfinityLab fraction collectors.
Maximum purification efficiency

The 1290 Infinity II Preparative LC System combines UV and mass-based peak identification for optimum fraction collection, allowing you to focus exclusively on your target compounds. Use time or peak-based algorithms, or both, to purify your target compounds.

- Power range of 600 bar at 50 mL/min and 420 bar at 200 mL/min for more resolution
- Lowest delay volume minimizes peak dispersion and carryover for highest recovery and purity
- Mass-based fraction collection for increased purified quantity per unit time and reduced need for reanalysis.

Maximum instrument efficiency

Highest sample and fraction capacity offers full flexibility to achieve highest throughput. The open-bed sampler and fraction collector combines fully automated handling of vials and microtiter plates in a single module. Secure collection of the entire eluent means that no sample is lost.

- Capacity to inject up to 864 samples or collect up to 432 fractions, or any combination, for full flexibility
- Flow rates up to 200 mL/min support 50 mm id columns, reducing number of required injections for more purified compound per unit time
- Reduced number of collected fractions necessary for optimized capacity utilization and instrument uptime

Maximum laboratory efficiency

By adding Agilent Automated Purification software to OpenLAB CDS ChemStation you open the door to full workflow automation. Combine this software with the open-bed sampler and fraction collector for fully automated liquid handling, and with the flexibility of the column compartment for easy access to your analytical and preparative columns.

- Highest fraction density per unit bench space
- Scalable sample fraction capacity based on your needs up to a maximum of 3456 samples or 1728 fractions, or any combination
- Easy-to-change pump heads allow you to expand the flow range up to 200 mL/min

The 1290 Infinity II Preparative Column Compartment offers highest flexibility for mounting and organization of your analytical and preparative columns, valves, delay coils, and MS Flow Modulator — all within a single module. Use with any InfinityLab LC Purification Solutions to increase your productivity significantly.
The Agilent 1260 Infinity II Preparative LC System is a dedicated solution with scalable capacity from a few samples to automated unattended purification of hundreds of samples. Move up to the next level of confidence in purification — every day in every way — at a price you can afford.

Compatible with any InfinityLab LC Purification Solution, the 1260 Infinity II Column Organizer provides for convenient mounting and management of a manual injection valve and your analytical and preparative columns.

Injection of microliter to milliliter volumes of sample from vials for preparative-scale LC purification.

Smooth upgrade paths allow you to increase collection capacity based on demand.
Everyday purification efficiency

The 1260 Infinity II Preparative LC System is a reliable system for your daily purification work. Seamless matching with our preparative columns and advanced supplies guarantees robust purification.

- Automatic delay calibration and multiple detectors facilitate maximum recovery and purity
- Highest flexibility in fraction size while maintaining high-precision sample recovery
- Perfectly matched with columns and supplies — for guaranteed separation and detection performance

Everyday instrument efficiency

The 1260 Infinity II Preparative LC System brings a new level of flexibility to your laboratory. Scale up easily from analytical work to purification tasks with minimum training.

- Flow rates up to 50 mL/min for compatibility with columns up to 30 mm inner diameter
- Sample introduction through ease-to-use manual injector, or fully automated vial sampler with injection of up to 3.6 mL from up to 132 samples
- Four outside diameters of fraction tubes enable collection of up to 216 fractions per module

Everyday laboratory efficiency

Achieve highest purity and recovery with the most-affordable fraction collector. Get highest flexibility in fraction size while maintaining high-precision recovery.

- Highest throughput within smallest footprint though optimized, single-stack configurations
- Expandable capacity up to 864 fractions within the same footprint
- Smooth upgrade paths protect your investment
TAILOR-MADE SOLUTIONS – PURELY FOR YOU

Choose from a wide range of solvent delivery modules, injectors, detectors, and fraction collectors to tailor a system that meets your needs. Increase your laboratory productivity with our automated purification software for automated transfer from analytical to preparative-scale purification workflows.

Find more details in the InfinityLab LC Purification Selection Guide (publication number 5991-8010EN).

Agilent 1260 Infinity II Preparative LC System
Combine automated sample injection with the flexibility to access four analytical and six preparative columns.

Agilent 1290 Infinity II Preparative LC System
Calculate focused gradients on-the-fly for each target compound to ensure highest purity of collected fractions.

Agilent 1260 Infinity II Manual Preparative LC System
Get the affordable solution with binary gradient delivery and manual sample injection for milligram purification.

Agilent 1290 Infinity II Autoscale Preparative LC System
Calculate focused gradients on-the-fly for each target compound to ensure highest purity of collected fractions.

MODULES

A
Agilent 1260 Infinity II Preparative Column Organizer

B
Agilent 1260 Infinity II Preparative Column Compartment

C
Agilent 1260 Infinity II Preparative Manual Injector

D
Agilent 1260 Infinity II Preparative Open-Bed Sampler / Collector

E
Agilent 1260 Infinity II Variable Wavelength Detector

F
Agilent 1260 Infinity II Diode Array Detector WR
Agilent 1260 Infinity II Preparative LC/MSD System
Move up to the next level of automation and confidence in your daily purification work while keeping within your budget.

Agilent 1290 Infinity II Preparative LC/MSD System
Gain full application flexibility within optimized bench space plus accurate mass-selective fraction triggering.

Agilent 1290 Infinity II Autoscale Preparative LC/MSD System
Get the highest efficiency with the ultimate system for direct scale-up from method scouting to gram-level purification of compounds.
Maximize the performance and reliability of your purification workflow by combining your InfinityLab LC Purification Solution with Agilent preparative columns and InfinityLab LC supplies. Regardless of your application, Agilent offers more solutions to solve your preparative LC challenges.

**Load & Lock columns for greater economy and flexibility**

Agilent Load & Lock columns are sold in a range of diameters and lengths, and can be packed with any commercially available materials, offering cost-effective and versatile solutions for high-performance, high-throughput, and high-yield preparative-scale purification. Proprietary fluid and sample distribution plates enable 20% higher sample loading while minimizing backpressure and peak broadening.
**Prep LC columns for reliable scale-up of small-molecule applications**

Agilent Prep LC columns provide exceptional loading and stability up to pH 10 and let you purify milligram to gram quantities of product. Prep LC columns are available in many formats to accommodate most of your preparative samples. Within the family, polar silica and nonpolar C18 phases are available. For rapid method development and easy scalability, ids from 4.6 to 50 mm are available, as well as bulk media.

**PLRP-S columns for high stability under demanding conditions**

Agilent PLRP-S columns give you additional options for optimizing capacity and resolution — two key parameters for maximizing purification throughput. The thermal and chemical stability of PLRP-S makes it ideal for purification workflows in which extreme conditions are used for sample preparation, compound elution, and column regeneration.

**InfinityLab supplies for easier usability and higher purification efficiency**

Agilent InfinityLab LC supplies provide the links within your InfinityLab LC purification solution to achieve the highest performance and operational efficiency. InfinityLab Quick Turn fittings with delay coil kits maximize your purification efficiency. Lab operations are improved with ergonomic solvent bottles and InfinityLab Stay Safe caps protect you from harmful solvent vapors.
Agilent offers software and informatics solutions to reap all the benefits of your InfinityLab LC Purification System. Agilent OpenLAB CDS ChemStation is powerful, easy-to-use software that puts you in complete control of your analytical and preparative-scale purification workflows.

**Make your lab more productive with dedicated software**

Agilent Automated Purification software is an easy-to-install add-on for OpenLAB CDS ChemStation, and facilitates the automated transfer of purification methodologies from analytical to preparative scale. Calculation of focused gradients on-the-fly for each target compound, ensuring highest purity of fractions collected during preparative-scale purification runs.

- True automated scale-up from analytical to preparative scale through math algorithms
- Infinite number of focused gradients ensure highest purity and recovery
- Highest sample throughput and lowest solvent consumption through focused gradients
- Automated scale-up regardless of change in particle size, flow rate, or column dimensions
- Boolean logic of UV and mass signal for fraction triggering
- Fraction Result Browser displays collected fractions, and UV and mass spectral data at a glance
Maximize performance and reliability by combining your InfinityLab LC Purification Solution with Agilent CrossLab – our coordinated method of delivering services and support that dramatically improve laboratory efficiency and productivity.

Get the most from your investment

If you are ready for a true technology refresh of the instrumentation and software in your lab, Agilent CrossLab provides transition services to enable rapid and seamless shift to the latest technology. Leave it to the experts to provide a speedy, stepwise upgrade that matches your needs and budget with minimal disruption to your workflows.

Agilent also offers comprehensive instrument and enterprise services. A full curriculum of Agilent University learning solutions helps you to maximize uptime, simplify administration, and protect the investments in your laboratory. Through preventive maintenance, our service plans protect your laboratory against the unknown, for dependable efficiency, fewer workflow disruptions, and optimized laboratory productivity. All service plans include Agilent Remote Advisor, a powerful set of pro-active, real-time support and reporting features, delivered by knowledgeable Agilent experts.

<table>
<thead>
<tr>
<th>Services Included in All Agilent CrossLab Service Agreements</th>
<th>GOLD</th>
<th>SILVER</th>
<th>BRONZE</th>
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<tbody>
<tr>
<td>Contract-level Preferred Response vs. T&amp;M</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>Hardware Telephone Support</td>
<td>✓</td>
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<tr>
<td><strong>Onsite Repair Services</strong></td>
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<tr>
<td>Unlimited Onsite Repair Visits (travel &amp; labor)</td>
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<tr>
<td>Parts Required for Repair</td>
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<tr>
<td>Consumables/Supplies Required for Repair, including liners, seals, tubing, assemblies, and multipliers</td>
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<tr>
<td><strong>Advanced Diagnostics and Reporting</strong></td>
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<tr>
<td>Agilent Remote Advisor-Assist</td>
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<tr>
<td><strong>High-Availability Services</strong></td>
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<tr>
<td>Extended Coverage Hours Discount</td>
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Agilent CrossLab service plans let you choose the service level that best meets your needs, goals, and budget. Regional differences to service plans may apply. Additional options are available.