

Agilent InfinityLab LC Purification Solutions

Selection Guide



Efficient LC Purification Solutions for Analytical to Preparative Scale

Agilent InfinityLab LC Purification Solutions offer an unmatched choice of 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.



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.



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.



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.

Maximized LC Purification Systems and Workflow Solutions

The flexibility of the InfinityLab LC purification portfolio allows you to tailor a system to meet your needs for purity and recovery while remaining within your budget. No matter what scale you are working at, Agilent offers high-efficiency purification solutions for workflows ranging from analytical-scale compound isolation through preparative-scale purification of a few milligrams to multiple grams of material.



1290 Infinity II Autoscale Preparative LC System

Calculate focused gradients on-the-fly for each target compound to ensure highest purity of collected fractions.



1290 Infinity II Autoscale Preparative LC/MSD System

The ultimate system for direct scale-up from method scouting to gram-level purification of compounds.



1290 Infinity II Preparative LC System

Combine automated sample injection with the flexibility to access four analytical and six prep columns.



1290 Infinity II Preparative LC/MSD System

Application flexibility within optimized bench space plus accurate mass selective fraction triggering.



1260 Infinity II Preparative LC System

Ideal when gradient elution is required for separation. Titanium pump heads are corrosion resistant and biocompatible.



1260 Infinity II Preparative LC/MSD System

Configure with UV and MS detectors, autosamplers, and multiple fraction collectors to meet your needs for automation and throughput.



1260 Infinity II Manual Preparative LC System

The affordable solution with binary gradient delivery and manual sample injection for milligram purification.



1220/1260/1290 Infinity II Analytical-Scale LC Purification Systems

Experience the power of isolating compounds in your analytical workflow.

Configure Your LC Purification System

Solvent Preparation				
Product		Description	Product Number	Usage
☐	1260 Infinity II Degasser	Four channels; up to 10 mL/min flow; 12 mL internal volume per channel	G7122A	A
Solvent Delivery				
☐	1290 Infinity II Preparative Binary Pump	Up to 200 mL/min; 600 bar; 4.6 to 50 mm column id; exchangeable pump heads; integrated active seals wash and SSV	G7161B	P
☐	1260 Infinity II Preparative Binary Pump	Up to 50 mL/min; 420 bar; 4.6 to 30 mm column id; integrated active seals wash	G7161A	P
☐	1260 Infinity II Isocratic Pump	600 bar up to 5 mL/min; 200 bar up to 10 mL/min; integrated degassing unit and SSV as option	G7110B	A/M
☐	1260 Infinity II Binary Pump	600 bar up to 5 mL/min; integrated degassing unit	G7112B	A
☐	1260 Infinity II Quaternary Pump	600 bar up to 5 mL/min; 200 bar up to 10 mL/min; integrated degassing unit	G7111B	A/M
☐	1260 Infinity II Bio-Inert Pump	600 bar up to 5 mL/min; 200 bar up to 10 mL/min; integrated degassing unit quaternary mixing; bio-inert flow path	G5654A	A
Valve Solutions				
☐	1290 Infinity Valve Drive	For enhanced injection modes and advanced valve-switching applications such as online SPE	G1170A	P
☐	1260 Infinity II Cluster Valve	For clustering up to three fraction collectors	G9322A	P
☐	InfinityLab Quick Change 2-Position/10-Port Prep Valve	Maximum pressure 600 bar; maximum flow rate 200 mL/min	G4730A	P
☐	InfinityLab Quick Change 8-Position/9-Port Prep Valve	Maximum pressure 600 bar; maximum flow rate 200 mL/min	G4731A	P
☐	InfinityLab Quick Change 6-Position/14-Port Prep Valve	Maximum pressure 600 bar; maximum flow rate 200 mL/min	G4734B	P
☐	InfinityLab Quick Change 2-Position/14-Port Prep Valve	Maximum pressure 600 bar; maximum flow rate 200 mL/min	G4738A	P
Sample Injection (Manual)				
☐	1260 Infinity II Manual Preparative Injector	20 µL to 20 mL injection loops	G1328D	P
☐	1260 Infinity II Manual Injector	5 µL to 5 mL injection loops	G1328C	A
☐	1260 Infinity II Bio-Inert Manual Injector	5 µL to 5 mL injection loops	G5628A	A

A Analytical module

P Preparative module

A/P Suitable for analytical or preparative-scale purification solutions

A/M Suitable for analytical-scale purification solutions or as a make-up module

Sample Injection (Automated)				
Product	Description	Product Number	Usage	
☐ 1290 Infinity II Preparative Open-Bed Sampler/Collector	Maximum flow rate 200 mL/min; up to 20 mL injection loops; maximum capacity up to 9 microtiter plates, 432 fraction tubes or 360 vials, or combination for injection and fraction collection	G7158B	P	
☐ 1260 Infinity II Preparative Autosampler	Maximum flow rate 200 mL/min; 0.1 to 3600 µL injection from vials; capacity 132 × 2 mL vials in 2 trays, or 36 × 6 mL vials in 2 trays	G7157A	P	
☐ 1290 Infinity II 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 up to 16 microtiter plates; multiwash option for less than 9 ppm carryover; optional sample thermostat available (Option #101); dual-needle option for highest throughput and flexibility	G7167B	A	
☐ 1290 Infinity II Vialsampler	0.1 to 20 µL (optionally 40 µL); up to 120 µL with multidraw mode at 1300 bar; sample capacity up to 132 × 2 mL vials; optional integrated column compartment for column heating up to 80 °C; optional integrated sample thermostat for sample temperature control in the range of 4 to 40 °C (Option #101)	G7129B	A	
☐ 1260 Infinity II 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 up to 16 microtiter plates; multiwash option for less than 9 ppm carryover; optional sample thermostat available (Option #101); dual-needle option for highest throughput and flexibility	G7167A	A	
☐ 1260 Infinity II 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; optional integrated sample thermostat for sample temperature control in the range of 4 to 40 °C (Option #101)	G7129A	A	
☐ 1260 Infinity II Bio-Inert Multisample	0 to 100 µL single-stroke injection at 600 bar; up to 1000 µL with optional kits; sample capacity up to 432 vials and up to 16 plates; multiwash option for less than 9 ppm carryover; optional integrated sample thermostat for sample temperature control in the range of 4-40 °C (Option #101)	G5668A	A	
Column/Valve Compartments and Organization				
☐ 1290 Infinity II Preparative Column Compartment	Holds up to four analytical columns, up to six preparative columns, and valves; includes leak sensor for increase laboratory safety	G7163B	P	
☐ 1290 Infinity II 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	G7116B	A	
☐ 1260 Infinity II Column Organizer	Maximum capacity of three columns; holds a manual injector; includes leak sensor for increase laboratory safety	G9328A	P	
☐ 1260 Infinity II 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	A	

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UV Detection				
	Product	Description	Product Number	Usage
☐	1260 Infinity II Variable Wavelength Detector	± 2.5 µAU/cm noise; 120 Hz (single wavelength detection); 2.5 Hz (dual wavelength detection; 190 to 600 nm)	G7114A	A/P
☐	1260 Infinity II Diode Array Detector WR	± 7 µAU/cm noise; 120 Hz; spectra; eight signals; 190 to 950 nm	G7115A	A/P
☐	1260 Infinity II Multiple Wavelength Detector	± 7 µAU/cm noise; 120 Hz; eight signals; 190 to 950 nm	G7165A	A/P
Special Detection				
☐	1260 Infinity II 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	A/P
☐	LC/MSD	Mass selective detector; up to m/z 2000	G6125B	A/P
☐	LC/MSD XT	Mass selective detector; up to m/z 3000 high mass range; 30 ms polarity switching; Agilent Jet Stream as option	G6135B	A/P
Support Modules				
☐	1290 Infinity II MS Flow Modulator	Suitable for flow rates up to 200 mL/min; maximum pressure 69 bar; supports split ratios between 100:1 and 100,000:1 with split frequencies up to 2 Hz	G7170B	P
☐	1260 Infinity II Delay Coil Organizer	Up to nine delay coils can be installed; includes leak sensor and pressure relief valve for increased laboratory safety	G9324A	P
Fraction Collection				
☐	1290 Infinity II Preparative Open-Bed Fraction Collector	Up to 200 mL/min flow; delay sensor technology; capacity 432 fractions; maximum tube height 150 mm; all materials in flow path inert	G7159B	P
☐	1260 Infinity II Preparative Valve-Based Fraction Collector	Up to 200 mL/min flow; delay sensor technology; capacity 11 fractions; all materials in flow path inert	G7166A	P
☐	1260 Infinity II Preparative Fraction Collector	Up to 100 mL/min flow; delay sensor technology; capacity 215 fractions; maximum tube height 100 mm	G1364E	P
☐	1260 Infinity II Analytical-Scale Fraction Collector	Up to 10 mL/min flow; delay sensor technology; capacity 215 fractions; maximum tube height 48 mm	G1364F	A
☐	1260 Infinity II Analytical-Scale Bio-Inert Fraction Collector	Up to 10 mL/min flow; delay sensor technology; capacity 215 fractions; maximum tube height 48 mm	G5664B	A

For details of the 1290 Infinity II Open-Bed Sampler/Collector, please see section "Sample Injection (Automated)".

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Load & Lock Columns

Product	Description	Product Number	Usage
☐ 123 MultiPacker Station	Air-driven hydraulic packing station for 1, 2, and 3 inch Load & Lock columns	PCG93LLSTAND123	P
☐ Load & Lock Column 27 × 500 mm	Maximum working pressure 134 bar; maximum sorbent capacity 90 grams; with stainless steel water jacket	PCG93LL500X25WJ	P
☐ Load & Lock Column 50 × 500 mm	Maximum working pressure 134 bar; maximum sorbent capacity 590 grams; with stainless steel water jacket	PCG93LL500X50WJ	P
☐ Load & Lock Column 75 × 500 mm	Maximum working pressure 134 bar; maximum sorbent capacity 1325 grams; with stainless steel water jacket	PCG93LL500X75WJ	P

Prep Columns

☐ InfinityLab Poroshell 120 SB-C18	21.2 × 150 mm, 4 µm, 120 Å	670150-902	P
☐ InfinityLab Poroshell 120 HPH-C18	21.2 × 150 mm, 4 µm, 100 Å	670150-702	P
☐ InfinityLab ZORBAX Eclipse Plus C18	21.2 × 150 mm, 5 µm, 95 Å	595150-902	P
☐ InfinityLab ZORBAX SB-C18	21.2 × 150 mm, 5 µm, 80 Å	585150-902	P
☐ InfinityLab Pursuit XRs C18	21.2 × 150 mm, 5 µm, 100 Å	INF6000150X212	P
☐ InfinityLab Pursuit XRs C18	30 × 150 mm, 5 µm, 100 Å	INF6000150X300	P
☐ PLRP-S	25.0 × 150 mm, 8 µm, 100 Å	PL1212-3800	P
☐ PLRP-S	50.0 × 150 mm, 8 µm, 100 Å	PL1712-3800	P

For a complete list of dimensions and chemistries, refer to <https://www.agilent.com/chem/prepcolumns>

Bulk Media

☐ C18 Media	Prep-C18, 10 µm, 100 Å, 1000 g	420910-902	P
☐ Silica Media	Prep-Silica, 10 µm, 100 Å, 1000 g	420910-901	P
☐ Polymeric Media	PLRP-S, 8 µm, 100 Å, 1000 g	PL1412-6800	P

Learn more:

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