

Agilent Prep LC Columns for Small Molecules and Biomolecules

MAINTAIN RAPID, RELIABLE SEPARATIONS AS YOU SCALE-UP

The Measure of Confidence



Agilent Technologies

FLEXIBLE, COST-EFFECTIVE OPTIONS FOR SCALING AND PREPARATIVE SEPARATIONS

Scaling up from analytical HPLC to preparative HPLC can be costly and time-consuming. To avoid wasting supplies – and valuable samples – you must reliably predict the separation you will achieve when you scale to manufacturing levels.

Agilent can help you rise to the challenge – whether you are scaling a routine analytical method, or maintaining precise separations throughout every phase of production. Our wide range of preparative particle size columns and phases are designed for high loadability – and employ similar column packing materials as their analytical counterparts. Bulk material is also available in select materials, and can be ordered through our Custom Ordering Process at agilent.com/chem/customlc

Inside: our latest column technologies for increasing product yield and system throughput

Agilent Prep LC columns *Page 3*

A cost-effective first choice for purifying mg to g quantities. Available in both C18 and bare silica

Additional prep columns for small molecules..... *Page 4*

- ZORBAX PrepHT columns: up to 7 μm preparative scale
- Pursuit/Pursuit XRs and Polaris columns: scale current methods to 10 μm

Prep columns for biomolecules *Page 5*

- ZORBAX PrepHT columns: high purity, recovery, and throughput
- PLRP-S columns: thermally and chemically stable
- PL-SAX and PL-SCX columns: stability over a range of linear velocities

Ordering information *Page 8*



Agilent Prep columns for HPLC let you purify microgram to gram quantities of sample with consistent results – making method transfer simple and predictable.

PURIFY LARGE AMOUNTS OF TARGET COMPOUNDS

Agilent Prep LC columns: A reliable first choice for scale-up

These highly loadable columns let you purify mg to g quantities of product, and are available in a variety of formats to accommodate most preparative samples. Other advantages include:

- Rapid method development, plus easy scalability from 4.6 to 50 mm
- Fast purification: 21.2 mm id cartridges increase throughput
- Exceptional column stability and loadability up to pH 10
- Columns, cartridges, and bulk media are available in both C18 and bare silica



Agilent Prep LC column

Specifications

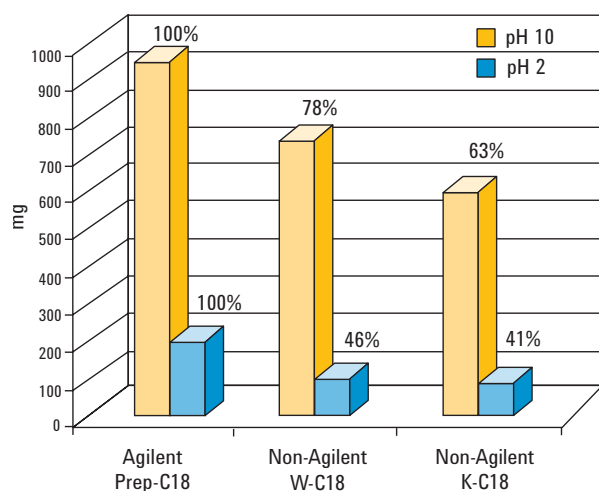
Bonded Phase	Pore Size	Surface Area	Temp. Limits	pH Range	Endcapped	Carbon Load
C18	100Å	400 m ² /g	60 °C*	2.0-10.0	Yes	24%
Silica	100Å	400 m ² /g	**	1.0-8.0	Yes	N/A

Specifications represent typical values only.

*Temperature limits are 60 °C (up to pH 8) and 40 °C (from pH 8-10).

**Temperature limits for bare silica are determined by the pH of the mobile phase.

Agilent Prep-C18 column has higher sample loading at pH 2 and 10



Conditions pH 2
 Column: 4.6 x 150 mm, 5 µm
 Mobile phase: 0.1% TFA in Water/ACN
 (ratio was adjusted at 41%-45%B to have same k)
 Flow: 1.0 mL/min
 Injection: 20 µL
 Sample: Oxybutynin in DMSO

Conditions pH 10
 Column: 4.6 x 150 mm, 5 µm
 Mobile phase: 10 mM ammonia in Water/ACN
 (ratio was adjusted at 80%-85%B to have same k)
 Flow: 1.0 mL/min
 Injection: 20 µL
 Sample: Oxybutynin in DMSO

Sample loading comparison of oxybutynin (a basic compound) at pH 2 and 10 in DMSO, using an Agilent Prep-C18 column and two non-Agilent columns.

Perform high-resolution scale-up with ZORBAX PrepHT columns

ZORBAX PrepHT columns are designed for rapid analytical to preparative scale-up *without* loss of resolution. For complex separations on larger columns (21.2 mm id; 150 mm length and longer), the 7 μm particle size balances high efficiency and high loadability. You also get the benefits of:

- Easy scale-up with ZORBAX phases
- Fast preparative separations – up to 2000 mg
- High efficiency and yield with 5 μm to 7 μm particles
- Easy installation: finger-tight connections effective up to 5000 psi/350 bar
- Analytical phase selectivity for your prep separations

Bulk material is available for ZORBAX 7 μm material, and can be ordered through our Custom Ordering Process at agilent.com/chem/customlc

ZORBAX PrepHT Column Specifications

Bonded Phase	Pore Size	Surface Area	pH Range	Endcapped	Carbon Load
Eclipse XDB-C18	80Å	180 m ² /g	2.0-9.0 *	Double	10%
Eclipse XDB-C8	80Å	180 m ² /g	2.0-9.0 *	Double	7.6%
SB-C18	80Å	180 m ² /g	0.8-8.0 *	No	10%
SB-C8	80Å	180 m ² /g	1.0-8.0 *	No	5.5%
SB-Phenyl	80Å	180 m ² /g	1.0-8.0 *	No	5.5%
SB-CN	80Å	180 m ² /g	1.0-8.0 *	No	0.04%
SB-Aq	80Å	180 m ² /g	1.0-8.0 *	No	proprietary
Bonus-RP	80Å	180 m ² /g	2.0-9.0	Triple	9.5%
Extend-C18	80Å	180 m ² /g	2.0-11.5 *	Double	12.5%
Rx-SIL	80Å	180 m ² /g	0-8.0	No	
Rx-C18	80Å	180 m ² /g	2.0-8.0 *	No	12%
CN	70Å	300 m ² /g	2.0-7.0	Yes	7%
NH2	70Å	300 m ² /g	2.0-7.0	Yes	4%
SIL	70Å	300 m ² /g	0-8.0	No	

* At pH 6-9, highest column stability for all silica-based columns is obtained by operating at temperatures <40 °C and using lower buffer concentrations in the range of 0.01-0.02 M.



Pursuit, Pursuit XRs, and Polaris columns help you maintain linearity

Agilent Pursuit and Polaris prep columns are available in the same phases as our Pursuit and Polaris analytical columns, with diameters up to 50 mm. Choose from chemistries of 3 μm or 5 μm in particle sizes, offering scalability up to 10 μm particle size.

- **Pursuit and Pursuit XRs prep columns** are prep-scalable for Pursuit and Pursuit XRs phases, and feature high surface-area silica. Choose from particle sizes to 10 μm , and column diameters up to 50 mm.
- **Polaris columns** are prep-scalable for Polaris phases, and are available in diameters of 10.0 mm and 21.2 mm, with particles up to 10 μm .

Pursuit Column Specifications

Bonded Phase	Pore Size	Surface Area	pH Range	Endcapped	Carbon Load
Pursuit C18	200Å	200 m ² /g	2 - 9	Yes	12.9%
Pursuit C8	200Å	200 m ² /g	2 - 9	Yes	7.4%
Pursuit Diphenyl	200Å	200 m ² /g	2 - 8	Yes	7.3%
Pursuit PFP	200Å	200 m ² /g	2 - 9	Yes	6.3%

Pursuit XRs Column Specifications

Bonded Phase	Pore Size	Surface Area	pH Range	Endcapped	Carbon Load
Pursuit XRs C18	100Å	440 m ² /g	2 - 9	Yes	22%
Pursuit XRs C8	100Å	440 m ² /g	2 - 9	Yes	15%
Pursuit XRs Diphenyl	100Å	440 m ² /g	2 - 8	Yes	14.6%
Pursuit XRs Si	100Å	440 m ² /g	2 - 8	Yes	N/A

Polaris Column Specifications

Bonded Phase	Pore Size	Surface Area	Pore Volume	Endcapped	Carbon Load
Polaris C18-A	180Å	200 m ² /g	1.1 cm ³ /g	Yes	13.8%
Polaris C18-Ether	180Å	200 m ² /g	1.1 cm ³ /g	Yes	12.1%
Polaris Amide C18	180Å	200 m ² /g	1.1 cm ³ /g	Yes	15%
Polaris Si-A	180Å	200 m ² /g	1.1 cm ³ /g	N/A	N/A
Polaris C8-A	180Å	200 m ² /g	1.1 cm ³ /g	Yes	7.4%
Polaris C8-Ether	180Å	200 m ² /g	1.1 cm ³ /g	Yes	12.1%
Polaris NH2	180Å	200 m ² /g	1.1 cm ³ /g	Amide	5.5%

PRECISELY SCALE SEPARATIONS OF PROTEINS, PEPTIDES, AND OTHER LARGE MOLECULES

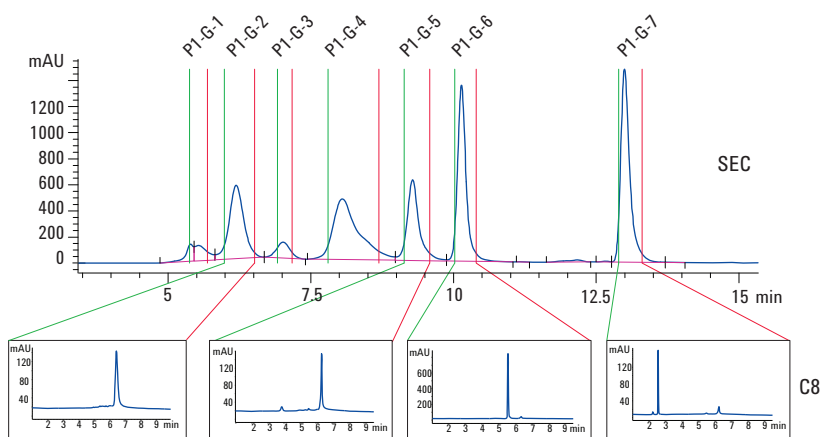
Achieve high purity and recovery for biomolecules with Agilent ZORBAX PrepHT columns

ZORBAX PrepHT columns are designed for rapid analytical to preparative scale-up without loss of resolution. Benefits include:

- Higher throughput: Large column diameters and mechanically stronger ZORBAX particles allow for flow rates up to 100 mL/min
- Packed with 5 μm to 7 μm particles for high efficiency and yield
- Available in a variety of bonded phases – StableBond 300Å, C18, C8, C3, and CN – for optimized resolution and loadability under any conditions

For complex separations on larger columns (21.2 mm id; 150 mm length and longer), we recommend the 7 μm particle size to balance high efficiency and high loadability.

SEC fraction of proteins with reversed-phase confirmation of purity



Peak-based fractionation. Fractions were re-analyzed using a reversed-phase C8 column. This confirmed the exact fractionation procedure using peak-based fraction trigger mode.

Conditions

Columns: Agilent Bio SEC-3, 300Å, 7.8 x 300 mm, 3 μm
 Agilent ZORBAX 300SB-C8, 4.6 x 50 mm, 8 μm
 Detector: Agilent 1260 Infinity Bio-inert Quaternary LC System

SEC and fraction collection

Flow Rate: 1 mL/min
 Gradient: Isocratic
 Injection Volume: 30 μL
 Thermostat autosampler and FC: 8 °C
 Temperature TCC: RT
 DAD: 280 nm/4 nm
 Ref.: OFF
 Peak Width: >0.05 minutes
 (1.0 second response time)(5 Hz)

Re-analysis – reversed-phase C8

Flow Rate: 1 mL/min
 Gradient: 0 min 5 % B, 95% C, 10 min 95% B, 5% C, Run time: 10 min, Stop time: 10 min
 Injection Volume: 100, 50, and 10 μL
 Thermostat autosampler and FC: 8 °C
 Temperature TCC: 70 °C
 DAD: 280 nm/4 nm
 Ref.: OFF
 Peak Width: >0.05 minute
 (1.0 second response time) (5 Hz)

PRECISELY SCALE SEPARATIONS OF PROTEINS, PEPTIDES, AND OTHER LARGE MOLECULES

PLRP-S columns: 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 purifications in which sample preparation, compound elution, and column regeneration are performed under extreme conditions. Other advantages include:

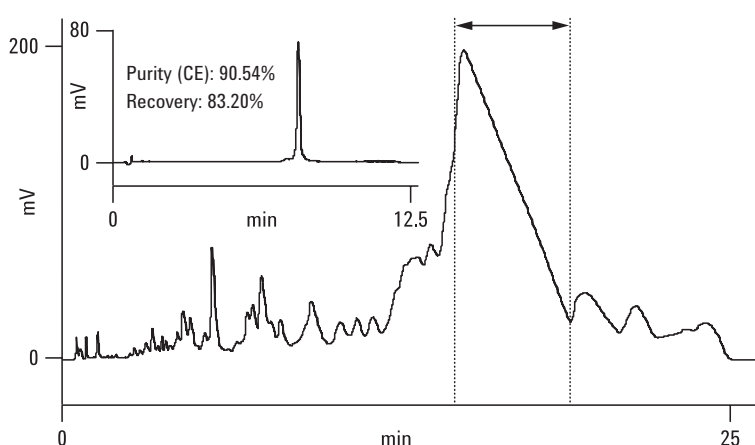
- Less method development time: Particle sizes range from 3 µm to 50 µm for scale-up from the µg/mg discovery stage to multi-kg cGMP production
- The 600 L batch size for the production of PLRP-S media enables multiple preparative columns to be packed from the same batch of media, eliminating the need to validate multiple batches which saves time and increases productivity
- Excellent chemical stability, up to 1 M NaOH, permits sanitation and regeneration for longer column lifetime

The PLRP-S media, consisting of rigid poly(styrene/divinylbenzene) particles, are available in a range of pore sizes for small molecule, synthetic biomolecule, and macromolecule purification.

Specifications

pH Range	Buffer Content	Organic Modifier	Temperature Limits	Maximum Pressure
1-14	Unlimited	1-100%	200 °C	5-8 µm: 3000 psi (210 bar) 3 µm: 4000 psi (300 bar)

Purification of a 25-mer trityl-off oligonucleotide and analytical quantitation of the fraction using PLRP-S 100Å, 4.6 x 50 mm



Conditions

Column: PLRP-S 100Å
PL1512-1300
4.6 x 50 mm, 3 µm

Mobile Phase: A: 100 mM Triethylammonium acetate (TEAA)
B: 100 mM TEAA in 25:75 Acetonitrile: water

Flow Rate: 1 mL/min

Gradient: 25% B 0 min, 35% B 2 min,
45% B 22.5 min, 45% B 23 min,
25% B 23.05 min, 25% B 26 min

Temperature: 80 °C

The full length oligo(n) can be purified from the failure sequences, including n-1.

Ordering Information

COLUMNS FOR SMALL MOLECULES

Agilent Prep LC Columns

Size (mm)	Particle Size (µm)	C18	Silica
Standard Columns (no special hardware required)			
4.6 x 250	10	440910-902	440910-901
4.6 x 150	10	443910-902	443910-901
4.6 x 100	10	449910-902	
4.6 x 250	5	440905-902	440905-901
4.6 x 150	5	443905-902	443905-901
4.6 x 100	5	449905-902	449905-901
4.6 x 50	5	446905-902	446905-901
PrepHT Cartridge Columns (require endfittings kit 820400-901)*			
21.2 x 250	10	410910-102	410910-101
21.2 x 150	10	413910-102	413910-101
21.2 x 50	10	446910-102	
21.2 x 250	5	443905-102	443905-101
21.2 x 100	5	449905-102	449905-101
21.2 x 50	5	446905-102	446905-101
PrepHT Endfittings, 2/pk		820400-901	820400-901
Standard Columns (no special hardware required)			
30.0 x 250	10	410910-302	410910-301
30.0 x 150	10	413910-302	413910-301
30.0 x 100	10	419910-302	419910-301
30.0 x 100	5	449905-302	449905-301
30.0 x 50	5	446905-302	446905-301
50.0 x 250	10	410910-502	410910-501
50.0 x 150	10	413910-502	413910-501
50.0 x 100	10	419910-502	419910-501
50.0 x 100	5	449905-502	449905-501

*All PrepHT cartridge columns require hardware kit (P/N 820400-901). If a guard column is desired for 21.2 mm id columns, the PrepHT Guard Hardware Kit, (P/N 820444-901) is also required. If a guard column is used on a 30 mm id column, the external guard column hardware kit (P/N 420420-901) is required.

ZORBAX PrepHT Columns

Size (mm)	Particle Size (µm)	Eclipse XDB-C18	Eclipse XDB-C8	SB-C18	SB-C8
21.2 x 250	7	977250-102	977250-106	877250-102	877250-106
21.2 x 150	7	977150-102	977150-106	877150-102	877150-106
21.2 x 150	5	970150-902	970150-906	870150-902	870150-906
21.2 x 100	5	970100-902	970100-906	870100-902	870100-906
21.2 x 50	5	970050-902	970050-906	870050-902	870050-906
PrepHT Guard Cartridge, 17 x 7.5	5	820212-925	820212-926	820212-920	820212-915
Guard Cartridge Holder		820444-901	820444-901	820444-901	820444-901
PrepHT Endfittings, 2/pk		820400-901	820400-901	820400-901	820400-901

Size (mm)	Particle Size (µm)	SB-CN	SB-Phenyl	SB-Aq	Bonus-RP
21.2 x 250	7	877250-105	877250-112	877250-114	878250-101
21.2 x 150	7			877150-114	878150-101
21.2 x 150	5			870150-914	868150-901
21.2 x 100	5			870100-914	868100-901
21.2 x 50	5			870050-914	868050-901
PrepHT Guard Cartridge, 17 x 7.5	5	820212-915	820212-915	820212-933	820212-928
Guard Cartridge Holder		820444-901	820444-901	820444-901	820444-901
PrepHT Endfittings, 2/pk		820400-901	820400-901	820400-901	820400-901

Size (mm)	Particle Size (µm)	Extend-C18	Rx-SIL	Rx-C18
21.2 x 250	7		877250-101	877967-102
21.2 x 150	7			
21.2 x 150	5	770150-902		
21.2 x 100	5	770100-902		
21.2 x 50	5	770050-902		
PrepHT Guard Cartridge, 17 x 7.5	5	820212-930	820212-919	820212-914
Guard Cartridge Holder		820444-901	820444-901	820444-901
PrepHT Endfittings, 2/pk		820400-901	820400-901	820400-901

Size (mm)	Particle Size (µm)	ODS (C18)	C8	CN	NH2	SIL
21.2 x 250	7	877952-102	877952-106	877952-105	877952-108	877952-101
PrepHT Endfittings, 2/pk		820400-901	820400-901	820400-901	820400-901	820400-901

Pursuit Prep Columns

Size (mm)	Particle Size (µm)	C18	C8	Diphenyl	PFP
10.0 x 250	5	A3000250X100	A3030250X100	A3040250X100	A3050250X100
10.0 x 250	10	A6002250X100	A3032250X100		
21.2 x 250	5	A3000250X212			
21.2 x 250	10	A6002250X212	A3032250X212		

Pursuit XRs Prep Columns

Size (mm)	Particle Size (µm)	XR _s C18	XR _s C8	XR _s Diphenyl	XR _s Diol	XR _s Si
21.2 x 250	10	A6002250X212				A6004250X212
21.2 x 250	5	A6000250X212		A6020250X212	A6100250X212	
21.2 x 150	5	A6000150X212	A6010150X212			
21.2 x 100	5	A6000100X212	A6010100X212	A6020100X212		
21.2 x 50	5	A6000050X212				
30.0 x 250	10	A6002250X300				A6004250X300
30.0 x 150	10	A6002150X300				
30.0 x 250	5	A6000250X300	A6010250X300			
30.0 x 150	5	A6000150X300				
30.0 x 100	5	A6000100X300		A6020100X300		
50.0 x 250	10	A6002250X500		A6022250X500		A6004250X500

Pursuit XRs Bulk Media

Particle Size (µm)	Unit	XR _s C18	XR _s C8	XR _s Diphenyl	XR _s Si
10	100 g	A6002100G	A6012100G		A6004100G
5	100 g	A6000100G			
10	250 g			A6022250G	
10	500 g	A6002500G	A6012500G		
10	1 kg	A600201KG			

Polaris Prep Columns

Size (mm)	Particle Size (µm)	C18-A	C18-Ether	Amide C18	Si-A
10.0 x 250	5	A2000250X100	A2020250X100	A2006250X100	
10.0 x 250	10			A2008250X100	
21.2 x 250	5	A2000250X212	A2030250X212		A2003250X212
21.2 x 250	10	A2002250X212			A2004250X212

Size (mm)	Particle Size (µm)	C8-A	C8-Ether	NH ₂
10.0 x 250	5	A2010250X100	A2030250X100	A2013250X100
21.2 x 250	5	A2010250X212		A2013250X212

To place your order now, visit agilent.com/chem/prep

Ordering Information

COLUMNS FOR BIOMOLECULES

ZORBAX PrepHT 300 StableBond Columns

Size (mm)	Particle Size (µm)	300SB-C18	300SB-C8-8	300SB-CN	300SB-C3
PrepHT Cartridge Columns (require endfittings kit 820400-901)					
21.2 x 250	7	897250-102	897250-106	897250-105	897250-109
21.2 x 150	7	897150-102	897150-106		897150-109
21.2 x 150	5	895150-902	895150-906		895150-909
21.2 x 100	5	895100-902	895100-906		895100-909
21.2 x 50	5	895050-902	895050-906		895050-909
PrepHT Endfittings, 2/pk		820400-901	820400-901	820400-901	820400-901
PrepHT Guard Cartridge, 17 x 7.5	5	820212-921	820212-918	820212-924	820212-924
Guard Cartridge Hardware		820444-901	820444-901	820444-901	820444-901

PLRP-S Columns

Size (mm)	Particle Size (µm)	PLRP-S 100Å	PLRP-S 300Å	PLRP-S 1000Å	PLRP-S 4000Å
100 x 300	30			PL1812-3102	PL1812-3103
100 x 300	15-20	PL1812-6200	PL1812-6201	880995-902	880995-906
100 x 300	10-15	PL1812-6400	PL1812-6401	883995-902	883995-906
100 x 300	10	PL1812-6100	PL1812-6101	860950-902	860950-906
100 x 300	8	PL1812-6800	PL1812-6801	863973-902	863973-906
50 x 300	8	PL1712-6800	PL1712-6801	861973-902	861973-906
50 x 150	30			PL1712-3702	PL1712-3703
50 x 150	15-20	PL1712-3200	PL1712-3201	863974-302	863974-306
50 x 150	10-15	PL1712-3400	PL1712-3401		861973-306
50 x 150	10	PL1712-3100	PL1712-3101	PL1712-3102	PL1712-3103
50 x 150	8	PL1712-3800	PL1712-3801	883750-902	883750-906
25 x 300	15-20	PL1212-6200	PL1212-6201		863750-906
25 x 300	10-15	PL1212-6400	PL1212-3401	861772-902	861775-906
25 x 300	10	PL1212-6100	PL1212-6101	865750-902	865750-906
25 x 300	8	PL1212-6800	PL1212-6801	861630-902	
25 x 150	30			PL1212-3702	PL1212-3703
25 x 150	10	PL1212-3100	PL1212-3101	PL1712-3102	PL1712-3103
25 x 150	8	PL1212-3800	PL1212-3801	5185-5920	5185-5920
25 x 50	10			PL1212-1102	PL1212-1103

PLRP-S Bulk Media

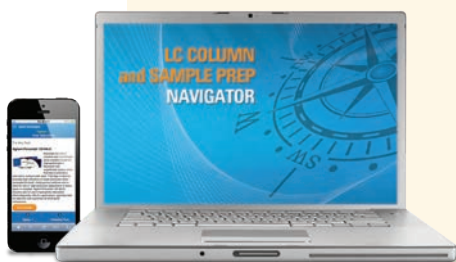
Particle Size (µm)	Unit	PLRP-S 100Å	PLRP-S 300Å	PLRP-S 1000Å	PLRP-S 4000Å
50	1 kg	PL1412-6K00	PL1412-6K01	PL1412-6K02	
	100 g	PL1412-4K00	PL1412-4K01	PL1412-4K02	
30	1 kg			PL1412-6702	PL1412-6703
	100 g			PL1412-4702	PL1412-4703
15-20	1 kg	PL1412-6200	PL1412-6201	861973-906	
	100 g	PL1412-4200	PL1412-4201		
10-15	1 kg	PL1412-6400	PL1412-6401		
	100 g	PL1412-4400	PL1412-4401		
10	1 kg	PL1412-6100	PL1412-6101	PL1412-6102	PL1412-6103
	100 g	PL1412-4100	PL1412-4101	PL1412-4102	PL1412-4103
8	1 kg	PL1412-6800	PL1412-6801		

PL-SAX and PL-SCX Columns

Size (mm)	Particle Size (μm)	PL-SAX 1000Å	PL-SAX 4000Å	PL-SCX 1000Å	PL-SCX 4000Å
100 x 300	30	PL1851-3102	PL1851-3103	PL1845-3102	PL1845-3103
100 x 300	10	PL1851-2102	PL1851-2103	PL1845-2102	PL1845-2103
50 x 150	30	PL1751-3702	PL1751-3703	PL1745-3702	PL1745-3703
50 x 150	10	PL1751-3102	PL1751-3103	PL1745-3102	PL1745-3103
25 x 150	30	PL1251-3702	PL1251-3703	PL1245-3702	PL1245-3703
25 x 150	10	PL1251-3102	PL1251-3103	PL1245-3102	PL1245-3103
25 x 50	10	PL1251-1102	PL1251-1103	PL1245-1102	PL1245-1103
7.5 x 150	8	PL1151-3802	PL1151-3803		
7.5 x 50	8	PL1151-1802	PL1151-1803	PL1145-1802	PL1145-1803

PL-SAX and PL-SCX Bulk Media

Particle Size (μm)	Unit	PL-SAX 1000Å	PL-SAX 4000Å	PL-SCX 1000Å	PL-SCX 4000Å
30	1 kg	PL1451-6702	PL1451-6703	PL1445-6702	PL1445-6703
	100 g	PL1451-4702	PL1451-4703	PL1445-4702	PL1445-4703
10	1 kg	PL1451-6102	PL1451-6103	PL1445-6102	PL1445-6103
	100 g	PL1451-4102	PL1451-4103	PL1445-4102	PL1445-4103



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Pressed for time? Agilent's FREE LC Columns and Sample Prep Navigator lets you:

- Explore columns based on method parameters, compound, and method
- Find sample prep guidance and method optimization tips
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- Obtain technical support contact information

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