

Si

SiliaChrom™

HPLC Columns 



SILICYCLE 
UltraPure **SILICA GELS**

SiliaChrom™ HPLC Columns

SiliaChrom HPLC columns are made of highly pure spherical silica particles. One of the most remarkable properties of every SiliaChrom column is that all types of organic compounds (acidic, basic and neutral) will have optimal peak symmetry and excellent efficiency across the whole applicable pH range. Lot-to-lot reproducibility is ensured by a thorough stable bonding and end-capping process. All columns are packed using a consistent slurry packing process to achieve uniform and stable bed for maximum column efficiency, long lifetime and column-to-column reproducibility.



SiliaChrom HPLC Columns

Main characteristics

Broad pH range (0.8-12.0)
Compatible with 100% aqueous mobile phase
High surface coverage
Minimum buffer concentration needed
Low bleed
Wide variety of chemistries available
Excellent column efficiency
Long column lifetime
Tightest specification

Benefits for the column users

Flexibility for method development
Maximum versatility
Tolerance to large volume and mass injected
Better sensitivity for LC-MS and column lifetime
High sensitivity for LC-MS
Broad selection of polarity
Better and faster separation
Lower cost
Better confidence in HPLC results

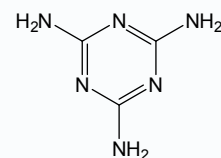
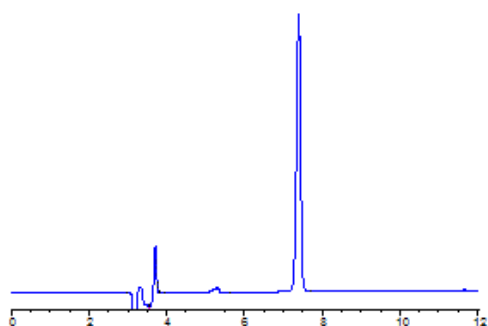
SiliaChrom SB & SiliaChrom XT

Solution for Low pH, High pH and LC-MS Applications

SiliaChrom SB C8 & C18 columns are specially designed for the separation of polar compounds from low to medium pH (extremely stable at pH 1.0). A class of columns that offer excellent performance for LC-MS applications.

SiliaChrom XT C18 columns are designed for applications to be run at very high pH (up to 12.0) but are also suitable for low pH (down to 1.5).

Melamine in Food



HPLC column: SiliaChrom SB C18, 4.6x200mm, 5µm

Buffer: 10mM citric acid added to 10mM OSAS, adjust pH to 3.0 with citric acid

Mobile phase: Buffer:ACN (85:15)

Detection: UV 240nm

Flow rate: 1 mL/min

Product Number	Product Name	Column Size (mm)	Particle Size (µm)	Pore Size (Å)	# / box
SiliaChrom SB Guard					
AUT-0095	Cartridge Holder	4.6	N/A	N/A	1
HPG-1100-01N	Guard Cartridge SB C18	4.6 x 10	5	150	4
HPG-1110-01N	Guard Cartridge SB C8	4.6 x 10	5	150	4
SiliaChrom SB C18					
HPC-1101-05N	SiliaChrom SB C18	4.6 x 50	3	150	1
HPC-1102-10N	SiliaChrom SB C18	4.6 x 100	3	150	1
HPC-1103-15N	SiliaChrom SB C18	4.6 x 150	3	150	1
HPC-1104-10N	SiliaChrom SB C18	4.6 x 100	5	150	1
HPC-1105-15N	SiliaChrom SB C18	4.6 x 150	5	150	1
HPC-1106-20N	SiliaChrom SB C18	4.6 x 200	5	150	1
HPC-1107-03G	SiliaChrom SB C18	2.1 x 30	3	150	1
HPC-1108-05G	SiliaChrom SB C18	2.1 x 50	3	150	1
HPC-1109-10G	SiliaChrom SB C18	2.1 x 100	3	150	1
SiliaChrom SB C8					
HPC-1111-05N	SiliaChrom SB C8	4.6 x 50	3	150	1
HPC-1112-10N	SiliaChrom SB C8	4.6 x 100	3	150	1
HPC-1113-15N	SiliaChrom SB C8	4.6 x 150	3	150	1
HPC-1114-10N	SiliaChrom SB C8	4.6 x 100	5	150	1
HPC-1115-15N	SiliaChrom SB C8	4.6 x 150	5	150	1
HPC-1116-20N	SiliaChrom SB C8	4.6 x 200	5	150	1
HPC-1117-03G	SiliaChrom SB C8	2.1 x 30	3	150	1
HPC-1118-05G	SiliaChrom SB C8	2.1 x 50	3	150	1
HPC-1119-10G	SiliaChrom SB C8	2.1 x 100	3	150	1

Product Number	Product Name	Column Size (mm)	Particle Size (µm)	Pore Size (Å)	# / box
SiliaChrom XT Guard					
AUT-0095	Cartridge Holder	4.6	N/A	N/A	1
HPG-1600-01N	Guard Cartridge XT	4.6 x 10	5	150	4
SiliaChrom XT C18					
HPC-1601-05N	SiliaChrom XT C18	4.6 x 50	3	150	1
HPC-1602-10N	SiliaChrom XT C18	4.6 x 100	3	150	1
HPC-1603-15N	SiliaChrom XT C18	4.6 x 150	3	150	1
HPC-1604-10N	SiliaChrom XT C18	4.6 x 100	5	150	1
HPC-1605-15N	SiliaChrom XT C18	4.6 x 150	5	150	1
HPC-1606-20N	SiliaChrom XT C18	4.6 x 200	5	150	1
HPC-1607-03G	SiliaChrom XT C18	2.1 x 30	3	150	1
HPC-1608-05G	SiliaChrom XT C18	2.1 x 50	3	150	1
HPC-1609-10G	SiliaChrom XT C18	2.1 x 100	3	150	1

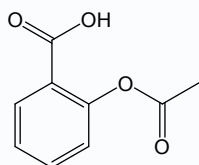
SiliaChrom dt C18

Solution for Quality Control Testing

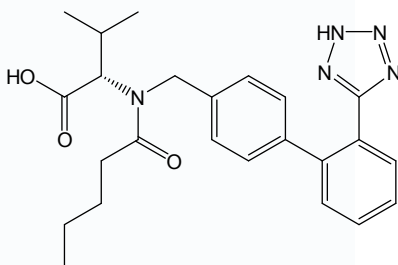
SiliaChrom dt C18 have an extremely low bleed and a long lifetime. These columns are made with a true universal reversed phase that can be used for the separation of acidic, basic and neutral molecules. They are suitable for superior analysis for stringent QA/QC testing.

Assay for QC testing

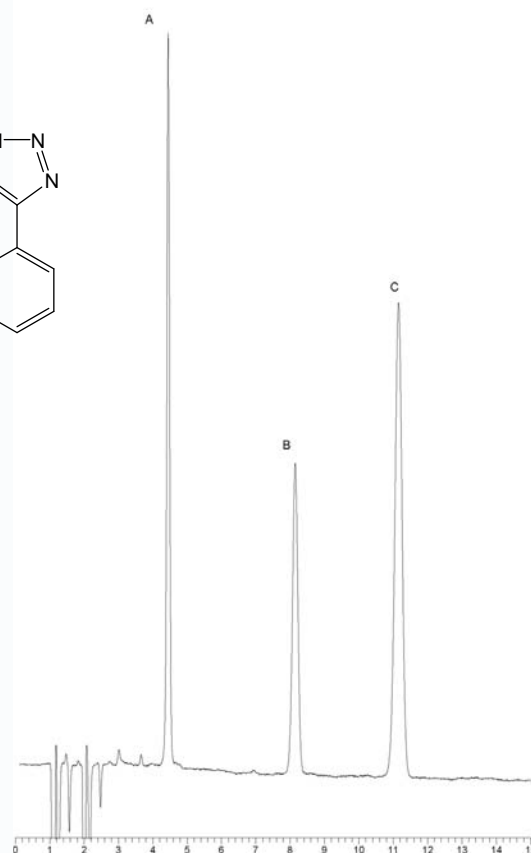
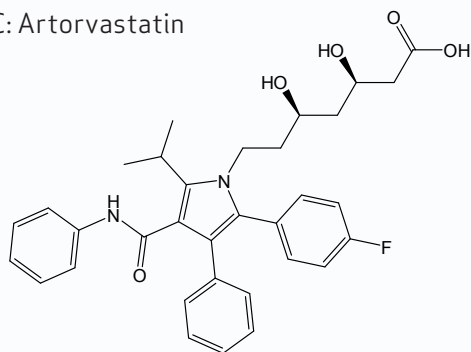
A: Aspirine



B: Valsartan



C: Artorvastatin



HPLC column: SiliaChrom dt C18 4.6x150mm, 3µm

Mobile phase: 70 :30 (MeOH/H₂O), 0.1 % (v/v) Formic Acid

Detection: UV 280nm

Flow rate: 0.800 mL/min

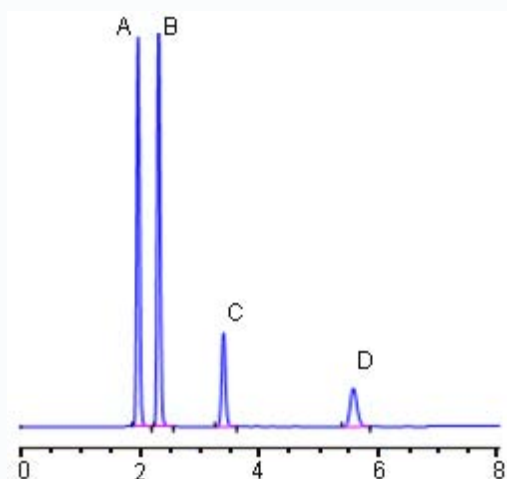
Product Number	Product Name	Column Size (mm)	Particle Size (µm)	Pore Size (Å)	# / box
SiliaChrom dt Guard					
AUT-0095	Cartridge Holder	4.6	N/A	N/A	1
HPG-1300-01N	Guard Cartridge dt	4.6 x 10	5	100	4
SiliaChrom dt C18					
HPC-1301-05N	SiliaChrom dt C18	4.6 x 50	3	100	1
HPC-1302-10N	SiliaChrom dt C18	4.6 x 100	3	100	1
HPC-1303-15N	SiliaChrom dt C18	4.6 x 150	3	100	1
HPC-1304-10N	SiliaChrom dt C18	4.6 x 100	5	100	1
HPC-1305-15N	SiliaChrom dt C18	4.6 x 150	5	100	1
HPC-1306-20N	SiliaChrom dt C18	4.6 x 200	5	100	1
HPC-1307-03G	SiliaChrom dt C18	2.1 x 30	3	100	1
HPC-1308-05G	SiliaChrom dt C18	2.1 x 50	3	100	1
HPC-1309-10G	SiliaChrom dt C18	2.1 x 100	3	100	1

SiliaChrom HILIC

A Unique Phase

SiliaChrom HILIC can be used as reversed or normal phase. They have a superior retention for polar compounds when operated in HILIC mode.

Vitamins

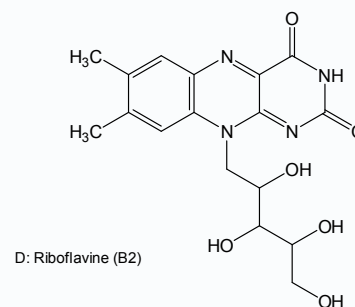
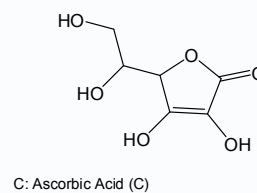
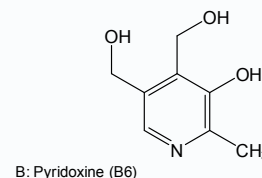
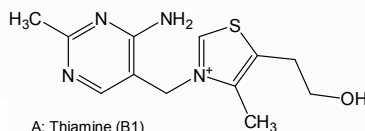


HPLC column: SiliaChrom HILIC 4.6x200mm, 5 μ m

Mobile phase: A: 0.1%TFA/water; B: 0.1%TFA/ACN A:B: (90:10)

Detection: UV 280nm

Flow rate: 1 mL/min



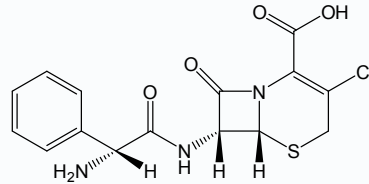
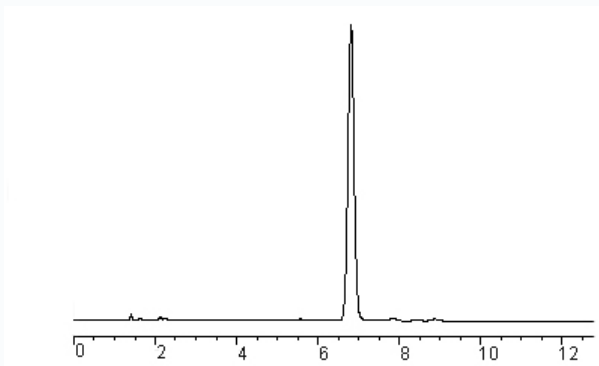
Product Number	Product Name	Column Size (mm)	Particle Size (μ m)	Pore Size (\AA)	# / box
SiliaChrom HILIC Guard					
AUT-0095	Cartridge Holder	4.6	N/A	N/A	1
HPG-1500-01N	Guard Cartridge	4.6 x 10	5	100	4
SiliaChrom HILIC					
HPC-1501-05N	SiliaChrom HILIC	4.6 x 50	3	100	1
HPC-1502-10N	SiliaChrom HILIC	4.6 x 100	3	100	1
HPC-1503-15N	SiliaChrom HILIC	4.6 x 150	3	100	1
HPC-1504-10N	SiliaChrom HILIC	4.6 x 100	5	100	1
HPC-1505-15N	SiliaChrom HILIC	4.6 x 150	5	100	1
HPC-1506-20N	SiliaChrom HILIC	4.6 x 200	5	100	1
HPC-1507-03G	SiliaChrom HILIC	2.1 x 30	3	100	1
HPC-1508-05G	SiliaChrom HILIC	2.1 x 50	3	100	1
HPC-1509-10G	SiliaChrom HILIC	2.1 x 100	3	100	1

SiliaChrom AQ C18

Solution for Highly Water Soluble Compounds

SiliaChrom AQ C18 are slightly polar C18 columns and are the most versatile reversed phase columns offered by SiliCycle for highly aqueous mobile phases. The stationary phase is endcapped and used for a broad pH range (pH 1.5 - 9.0).

Cefaclor



HPLC column: SiliaChrom AQ C18, 4.6x150mm, 5µm

Buffer: 0.05M Sodium Phosphate (pH=3.4)

Mobile phase: Buffer:ACN (98:2)

Detection: UV 254nm

Flow rate: 1 mL/min

Product Number	Product Name	Column Size (mm)	Particle Size (µm)	Pore Size (Å)	# / box
SiliaChrom AQ Guard					
AUT-0095	Cartridge Holder	4.6	N/A	N/A	1
HPG-1400-01N	Guard Cartridge AQ	4.6 x 10	5	100	4
SiliaChrom AQ C18					
HPC-1401-05N	SiliaChrom AQ C18	4.6 x 50	3	100	1
HPC-1402-10N	SiliaChrom AQ C18	4.6 x 100	3	100	1
HPC-1403-15N	SiliaChrom AQ C18	4.6 x 150	3	100	1
HPC-1404-10N	SiliaChrom AQ C18	4.6 x 100	5	100	1
HPC-1405-15N	SiliaChrom AQ C18	4.6 x 150	5	100	1
HPC-1406-20N	SiliaChrom AQ C18	4.6 x 200	5	100	1
HPC-1407-03G	SiliaChrom AQ C18	2.1 x 30	3	100	1
HPC-1408-05G	SiliaChrom AQ C18	2.1 x 50	3	100	1
HPC-1409-10G	SiliaChrom AQ C18	2.1 x 100	3	100	1

SiliCycle also offers:

Solid Phase Extraction (SPE) Cartridges and Well Plates

- Wide variety of sorbents available
- High recoveries and yields
- No needle clogging
- Less time and solvent spent conditioning the sorbent
- No silica, plastic, or grease contamination
- Lot-to-lot reproducibility
- Accessories available

SiliaPrep™



SiliaPlate™

Thin layer chromatography (TLC) plates

- Analytical and preparative types
- Different sizes and choice of backings
- Normal, reversed and specialty phases

SiliaSphere™

Analytical spherical gels with monodispersed particle size and preparative spherical silica gels.

- Very high purity
- Different phases available (normal, reversed, specialty, custom)
- Available in different pore size
- Wide choice of particle size (including sub-2µm)



IMPAQ®

Preparative Angular Silica:

- Tight particle size distribution
- Lot-to-lot reproducibility
- Useful in large-scale preparative HPLC applications
- Wide choice of phases (normal, reversed, specialty)

HOW TO ORDER

Within Canada & USA, SiliCycle's products are sold directly to the customer with support from local representatives. To contact your local sales representative for a consultation or a product demonstration, please call the toll-free number.

You can also place your order to SiliCycle:

BY EMAIL

info@silicycle.com

BY FAX

Fax: 1.418.874.0355

BY PHONE

Monday through Friday from 8:00 a.m. to 5:00 p.m. Eastern Standard Time, .

Phone: 1.418.874.0054

Toll free: 1.877.745.4292 (NORTH AMERICA ONLY)

Outside the Canada & USA, contact your SiliCycle local distributor or call 1.418.874.0054



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