About Hawach Scientific

Hawach is a modern enterprise, contains well integration of R&D, production, sales and after-sales service. Hawach located at Xi'an High-Tech development Zone, which is one of the five national level High-Tech development Zones with plant covers a production workshop area of 8000 ㎡, with 4000 ㎡ of clean room. We have International advanced level of production lines to produce and make global supply of microporous Membrane, Syringe Filter, HPLC Sample Vials, Septa and Caps, along with Filter Paper, Vacuum Filtration Manifolds and Vacuum Pumps,Chromatography Columns, QuEchERs etc.

Hawach Scientific never stop upgrading our technique, corporate with many famous universities including Northwestern Polytechnical Universities, Xi'an University of Technology, and Shaanxi University of Science and Technology. Hawach has established laboratory analysis institute, research and development center.

In Hawach Scientific, quality always comes first, in the very beginning, Hawach started to learn world advanced production technology and experience, especially quality control testing laboratory. We have ultraviolet absorption detector（UVD）, liquid chromatography, integrity tester, flow rate tester, dielectric strength tester, heating plate, laser particle counter etc. After production, all articles are delivered to QC center, only qualified products can be to the next procedure.

Today, we are happy to see our products exported to the United States, Korea,Japan UK, Germany, Dubai, Israel and Mexico. The quality and service of our products receive consistent approval from customers.Our prospect is to be leader and century enterprise, Provide superior products, service and solution to global laboratories and factories.
Hawach Scientific's mission is "Accomplish Sciences, help employee realized their dreams.", By joint efforts of Hawach's employee, business partners and customers, we believe Hawach can be a leader of laboratory industry.

Hawach Scientific

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Flash Chromatography Column

Description

Hawach flash columns are machine-packed with ultra-pure silica gel. Unique, proprietary dry packing technique produces uniform packed sorbent bed with less channeling effect, tighter band and symmetrical peak definition, resulting better resolution and re-producibility. Innovative column design offers safety and flexibility with leak free performance.

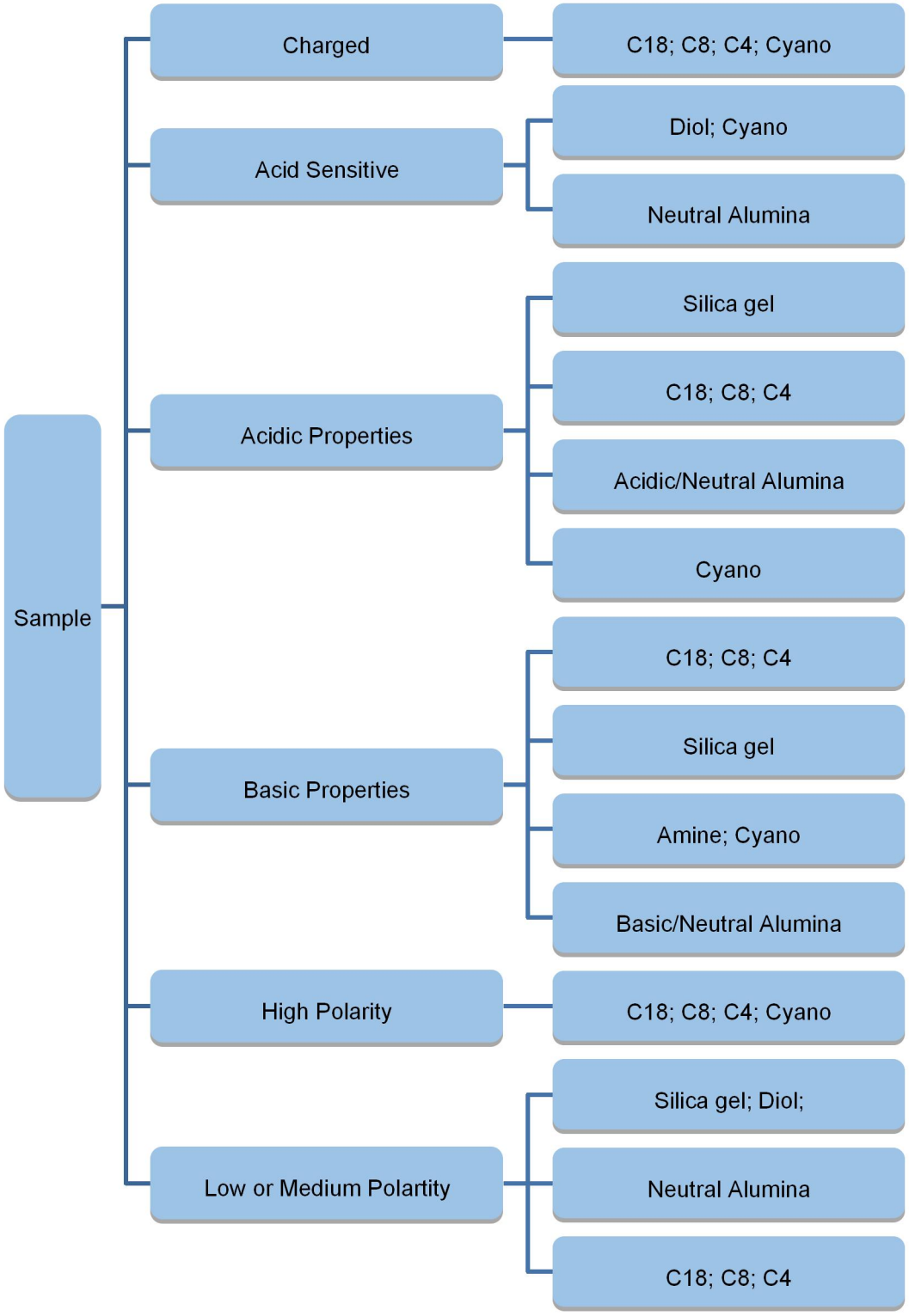
Standard Luer-Lock end fittings enable quick, easy connection to commercially available flash systems on the market.

Ultra-pure silica gel as standard packing sorbent features narrow particle size distribution, low level of fines and reduced trace metal content, neutral pH, tightly controlled water content and high surface area, providing scientists high resolution, reproducible separation and purification performance with least contamination to the desired compounds.

Advantages

• Low fines
• Neutral pH
• 100% guaranteed leak-free
• Clean, pre-packed, pharmaceutical-grade polypropylene cartridges
• Made with ultra-pure silica gel (we can pack your own source)
• Tight particle-size distribution to avoid leaching or channelling, no tailing
• Water activity and controlled water content for silica
• Innovative and semi-automated packing technology

Purification based on the characteristics of the sample



1.1 StarFlash Silica Column

1.1.1 Standard Silica Column

Description

Ultra-pure standard silica gel (40–63μm, 60Å)
The packing is ultra-pure silica (specially washed with acid and DI water; narrow particle size and water content control)
Column Specification Surface Area: 500m^2/g
Average Pore Size: 60Å
Average Particle Size: 40-63μm
Surface pH: 6.3-7.2
Water Content: 3.0-5.0%

Ordering Information

Item No.	Description	Flow Rate (mL/min)	Sample Size	Max. Pressure (psi/bar)	Package (pcs/pk)
SLSTS40004	40-63μm, 60Å, 4g	15–40	4mg-0.4g	200/14	20
SLSTS40012	40-63μm, 60Å, 12g	30-60	12mg-1.2g	200/14	18
SLSTS40025	40-63μm, 60Å, 25g	30-60	25mg-2.5g	200/14	12
SLSTS40040	40-63μm, 60Å, 40g	40-70	40mg-4.0g	200/14	12
SLSTS40080	40-63μm, 60Å, 80g	50-100	80mg-8.0g	200/14	10
SLSTS40120	40-63μm, 60Å, 120g	60-150	120mg-12.0g	200/14	10
SLSTS40220	40-63μm, 60Å, 220g	80-220	220mg-22.0g	150/10	6
SLSTS40330	40-63μm, 60Å, 330g	80-220	330mg-33.00g	150/10	5
SLSTS40800	40-63μm, 60Å, 800g	100-300	800mg-80.0g	100/7	3
SLSTS41600	40-63μm, 60Å, 1600g	200-500	1.6g-160g	100/7	2
SLSTS43000	Standard Silica gel, 40-63μm,60Å, 3000g	200-500	3.0g-300g	100/6.9	1

1.1.2 Superior Silica Column

Description

Ultra-pure superior silica gel (40–63μm, 60Å)
New cartridge design – Spin welded version for higher pressure (up to 300psi)
Female Luer lock and Male Luer Slip connections
Better cartridge design for bonded material – reusable
More secure for cartridge stacking

Higher pressure rating: up to 300psi
High-efficiency superior silica gel (25–40μm, 60Å)
25–40μm flash columns are manufactured with the same cartridges as the 40-63μm (and therefore have all the same great characteristics) but are packed with ultra-pure, high-quality, high-efficiency silica gel (25–40μm, 60Å). This series present an outstanding resolution over conventional 40–63μm cartridges.

Ordering Information

Item No.	Description	Flow Rate (mL/min)	Sample Size	Max. Pressure (psi/bar)	Package (pcs/pk)
SLSUS40004	40-63μm, 60Å, 4g	15–40	4mg-0.4g	200/14	20
SLSUS40012	40-63μm, 60Å, 12g	30-60	12mg-1.2g	200/14	18
SLSUS40025	40-63μm, 60Å, 25g	30-60	25mg-2.5g	200/14	12
SLSUS40040	40-63μm, 60Å, 40g	40-70	40mg-4.0g	200/14	12
SLSUS40080	40-63μm, 60Å, 80g	50-100	80mg-8.0g	200/14	10
SLSUS40120	40-63μm, 60Å, 120g	60-150	120mg-12.0g	200/14	10
SLSUS40220	40-63μm, 60Å, 220g	80-220	220mg-22.0g	150/10	6
SLSUS40330	40-63μm, 60Å, 330g	80-220	330mg-33.00g	150/10	5
SLSUS20004	25-40μm, 60Å, 4g	15–30	4mg-0.4g	300/21	20
SLSUS20012	25-40μm, 60Å, 12g	25-50	12mg-1.2g	300/21	18
SLSUS20025	25-40μm, 60Å, 25g	25-50	25mg-2.5g	300/21	12
SLSUS20040	25-40μm, 60Å, 40g	30-60	40mg-4.0g	300/21	12
SLSUS20080	25-40μm, 60Å, 80g	40-80	80mg-8.0g	300/21	10
SLSUS20120	25-40μm, 60Å, 120g	60-100	120mg-12.0g	300/21	10
SLSUS20220	25-40μm, 60Å, 220g	80-160	220mg-22g	250/17	6
SLSUS20330	25-40μm, 60Å, 330g	80-160	330mg-33g	250/17	5

1.2 PureFlash Column

1.2.1 C18 Column

Spherical C18 Column

Description

40-60μm, 120Å
Column Specification Surface Area: 300m^2/g
Average Pore Size: 120Å
Average Particle Size: 40-60μm

Carbon Content: 17%

Ordering Information

Item No.	Description	Flow Rate (mL/min)	Sample Size	Max. Pressure (psi/bar)	Package (pcs/pk)
SLC18SP40004PF	40-60μm, 120Å, 4.5g	10-20	4.5mg-68mg	300/21	2
SLC18SP40012PF	40-60μm, 120Å, 18g	15-30	18mg-0.27g	300/21	1
SLC18SP40025PF	40-60μm, 120Å, 28g	15-30	28mg-0.42g	300/21	1
SLC18SP40040PF	40-60μm, 120Å, 40g	20-40	40mg-0.60g	300/21	1
SLC18SP40080PF	40-60μm, 120Å, 90g	30-60	90mg-1.35g	300/21	1
SLC18SP40120PF	40-60μm, 120Å, 130g	40-60	130mg-1.95g	300/21	1
SLC18SP40220PF	40-60μm, 120Å, 245g	50-120	245mg-3.68g	250/17	1
SLC18SP40330PF	40-60μm, 120Å, 350g	50-120	350mg-5.25g	250/17	1

30-50μm, 120Å

Column Specification Surface Area: 300m^2/g

Average Pore Size: 120Å

Average Particle Size: 30-50μm

Carbon Content: 17%

Item No.	Description	Flow Rate (mL/min)	Sample Size	Max. Pressure (psi/bar)	Package (pcs/pk)
SLC18SP30004PF	30-50μm, 120Å, 4.3g	5-15	4.3mg-86mg	300/21	2
SLC18SP30012PF	30-50μm, 120Å, 16g	10-25	16mg-0.32g	300/21	1
SLC18SP30025PF	30-50μm, 120Å, 26g	10-25	26mg-0.52g	300/21	1
SLC18SP30040PF	30-50μm, 120Å, 39g	15-30	39mg-0.78g	300/21	1
SLC18SP30080PF	30-50μm, 120Å, 85g	20-50	85mg-1.7g	300/21	1
SLC18SP30120PF	30-50μm, 120Å, 125g	30-60	125mg-2.5g	300/21	1
SLC18SP30220PF	30-50μm, 120Å, 240g	40-80	240mg-4.8g	250/17	1
SLC18SP30330PF	30-50μm, 120Å, 335g	40-80	335mg-6.7g	250/17	1

15μm, 100Å

Column Specification Surface Area: 320m^2/g

Average Pore Size: 100Å

Average Particle Size: 15μm

Carbon Content: 17%

Item No.	Description	Flow Rate (mL/min)	Sample Size	Max. Pressure (psi/bar)	Package (pcs/pk)
SLC18SP10004PF	15μm, 100Å, 5.4g	5-15	5.4mg-108mg	300/21	2
SLC18SP10012PF	15μm, 100Å, 20g	10-25	20mg-0.4g	300/21	1
SLC18SP10025PF	15μm, 100Å, 33g	10-25	33mg-0.66g	300/21	1
SLC18SP10040PF	15μm, 100Å, 48g	15-30	48mg-0.96g	300/21	1
SLC18SP10080PF	15μm, 100Å, 105g	20-50	105mg-2.1g	300/21	1
SLC18SP10120PF	15μm, 100Å, 155g	30-60	155mg-3.1g	300/21	1
SLC18SP10220PF	15μm, 100Å, 290g	40-80	290mg-5.8g	250/17	1
SLC18SP10330PF	15μm, 100Å, 410g	40-80	410mg-8.2g	250/17	1

20-45μm, 100Å

Column Specification Surface Area: 320m^2/g

Average Pore Size: 100Å

Average Particle Size: 20-45μm

Carbon Content: 17%

Item No.	Description	Flow Rate (mL/min)	Sample Size	Max. Pressure (psi/bar)	Package (pcs/pk)
SLC18SP20004PF	20-45μm, 100Å, 5.4g	5-15	5.4mg-108mg	300/21	2
SLC18SP20012PF	20-45μm, 100Å, 20g	10-25	20mg-0.4g	300/21	1
SLC18SP20025PF	20-45μm, 100Å, 33g	10-25	33mg-0.66g	300/21	1
SLC18SP20040PF	20-45μm, 100Å, 48g	15-30	48mg-0.96g	300/21	1
SLC18SP20080PF	20-45μm, 100Å, 105g	20-50	105mg-2.1g	300/21	1
SLC18SP20120PF	20-45μm, 100Å, 155g	30-60	155mg-3.1g	300/21	1
SLC18SP20220PF	20-45μm, 100Å, 300g	40-80	300mg-6.0g	250/17	1
SLC18SP20330PF	20-45μm, 100Å, 420g	40-80	420mg-8.4g	250/17	1

Irregular C18 Column

Description

40-63μm, 60Å

Column Specification Surface Area: 500m^2/g

Average Pore Size: 60Å

Average Particle Size: 40-63μm

Carbon Content: 17%

Ordering Information

Item No.	Description	Flow Rate (mL/min)	Sample Size	Max. Pressure (psi/bar)	Package (pcs/pk)
SLC18IR40004PF	40-63μm, 60Å, 5.9g	10-20	5.9mg-118mg	300/21	2
SLC18IR40012PF	40-63μm, 60Å, 23g	15-30	23mg-0.46g	300/21	1
SLC18IR40025PF	40-63μm, 60Å, 38g	15-30	38mg-0.76g	300/21	1
SLC18IR40040PF	40-63μm, 60Å, 55g	20-40	55mg-1.1g	300/21	1
SLC18IR40080PF	40-63μm, 60Å, 122g	30-60	122mg-2.5g	300/21	1
SLC18IR40120PF	40-63μm, 60Å, 180g	40-80	180mg-3.6g	300/21	1
SLC18IR40220PF	40-63μm, 60Å, 340g	50-100	340mg-6.8g	250/17	1
SLC18IR40330PF	40-63μm, 60Å, 475g	50-100	475mg-9.5g	250/17	1

20-45μm, 100Å

Column Specification Surface Area: 320m^2/g

Average Pore Size: 100Å

Average Particle Size: 20-45μm

Carbon Content: 17%

Item No.	Description	Flow Rate (mL/min)	Sample Size	Max. Pressure (psi/bar)	Package (pcs/pk)
SLC18IR20004PF	20-45μm, 100Å, 5.4g	5-15	5.4mg-104mg	300/21	2
SLC18IR20012PF	20-45μm, 100Å, 20g	10-25	20mg-0.4g	300/21	1
SLC18IR20025PF	20-45μm, 100Å, 33g	10-25	33mg-0.66g	300/21	1
SLC18IR20040PF	20-45μm, 100Å, 48g	15-30	48mg-0.96g	300/21	1
SLC18IR20080PF	20-45μm, 100Å, 105g	20-50	105mg-2.1g	300/21	1
SLC18IR20120PF	20-45μm, 100Å, 155g	30-60	155mg-3.1g	300/21	1
SLC18IR20220PF	20-45μm, 100Å, 295g	40-80	295mg-5.9g	250/17	1
SLC18IR20330PF	20-45μm, 100Å, 420g	40-80	420mg-8.4g	250/17	1

1.2.2 Spherical NH2 Column

Description

Bonded with propylamino group on silica gel, NH2 flash columns has good retention for compounds capable of forming hydrogen bonds. The content of water in the mobile phase has little effect on the chromatography behavior. It has a high re-producibility and long lifetime, and is a good choice for compounds likely to form hydrogen bonds, such as carbohydrate and alcohols.

Average Pore Size: 60Å

Average Particle Size: 40-63μm

Surface Area: 500m^2/g
Amino Content: 1.3mmol/g

Ordering Information

Item No.	Description	Flow Rate (mL/min)	Sample Size	Max. Pressure (psi/bar)	Package (pcs/pk)
SLNH40004PF	40–63μm, 60Å, 5.9g	10-20	5.9mg–118mg	300/21	2
SLNH40012PF	40–63μm, 60Å, 23g	15-30	23mg-0.46g	300/21	1
SLNH40025PF	40–63μm, 60Å, 38g	15-30	38mg-0.76g	300/21	1
SLNH40040PF	40–63μm, 60Å, 55g	20-40	55mg-1.1g	300/21	1
SLNH40080PF	40–63μm, 60Å, 122g	30-60	122mg-2.5g	300/21	1
SLNH40120PF	40–63μm, 60Å, 180g	40-80	180mg-3.6g	300/21	1
SLNH40220PF	40–63 μm, 60Å, 340g	50-100	340mg-6.8g	250/17	1
SLNH40330PF	40–63μm, 60Å, 475g	50-100	475mg-9.5g	250/17	1

1.2.3 Spherical C4 Column

Description

Reversed phase bond the C4 non-polar alkyl functional group, the reversed phase separation model is in contrast to the positive phase. In reversed-phase chromatography, non-polar or hydrophobic compounds are strongly retained, while polarity samples which are weakly retained can go through the column faster.
Because of its good re-producibility and wide application range, reverse phase filler is becoming a popular and purification separation technology.
Average Pore Size: 100Å
Average Particle Size: 20-45μm
Surface Area: 320m^2/g
Carbon Content: 5.8%

Order Information

Item No.	Description	Flow Rate (ml/min)	Sample Size(g)	Max. Pressure (psi/bar)	Package (pcs/pk)
SLC420004PF	20–45μm, 100Å, 5.4g	5–15	5.4mg–108mg	300/21	2
SLC420012PF	20–45μm, 100Å, 20g	10–25	20mg–0.40g	300/21	1
SLC420025PF	20–45μm, 100Å, 33g	10–25	33mg–0.66g	300/21	1
SLC420040PF	20–45μm, 100Å, 48g	15–30	48mg–0.96g	300/21	1
SLC420080PF	20–45μm, 100Å, 105g	20–50	105mg–2.1g	300/21	1
SLC420120PF	20–45μm, 100Å, 155g	30–60	155mg–3.1g	300/21	1
SLC420220PF	20–45μm, 100Å, 300g	40–80	300mg–6.0g	250/17	1
SLC420330PF	20–45μm, 100Å, 420g	40–80	420mg–8.4g	250/17	1

1.2.4 Spherical C8 Column

Description

Reversed phase bond the C8 non-polar alkyl functional group, the reversed phase separation model is in contrast to the positive phase. In reversed-phase chromatography, non-polar or hydrophobic compounds are strongly retained, while polarity samples which are weakly retained can go through the column faster.
Because of its good re-producibility and wide application range, reverse phase filler is becoming a popular and purification separation technology.
Average Pore Size: 100Å
Average Particle Size: 20-45μm
Surface Area: 320m^2/g
Carbon Content: 7%

Order Information

Item No.	Description	Flow Rate (ml/min)	Sample Size(g)	Max. Pressure (psi/bar)	Package (pcs/pk)
SLC820004PF	20–45μm, 100Å, 5.4g	5–15	5.4mg–108mg	300/21	2
SLC820012PF	20–45μm, 100Å, 20g	10–25	20mg–0.20g	300/21	1
SLC820025PF	20–45μm, 100Å, 33g	10–25	33mg–0.66g	300/21	1
SLC820040PF	20–45μm, 100Å, 48g	15–30	48mg–0.96g	300/21	1
SLC820080PF	20–45μm, 100Å, 105g	20–50	105mg–2.1g	300/21	1
SLC820120PF	20–45μm, 100Å, 155g	30–60	155mg–3.1g	300/21	1
SLC820220PF	20–45μm, 100Å, 300g	40–80	300mg–6.0g	250/17	1
SLC820330PF	20–45μm, 100Å, 420g	40–80	420mg–8.4g	250/17	1

1.2.5 Spherical CN Column

Description

High purity silicon substrate bonding cyano group; Polarity is between silicone and C18, can be used for both normal phase and reverse phase separation.
Average Pore Size: 100Å
Average Particle Size: 20-45μm
Surface Area: 320m^2/g
Carbon Content: 5.5%

Order Information

Item No.	Description	Flow Rate (ml/min)	Sample Size(g)	Max. Pressure (psi/bar)	Package (pcs/pk)
SLCN20004PF	20–45μm, 100Å, 5.4g	5–15	5.4mg–108mg	300/21	2
SLCN20012PF	20–45μm, 100Å, 20g	10–25	20mg–0.20g	300/21	1
SLCN20025PF	20–45μm, 100Å, 33g	10–25	33mg–0.66g	300/21	1
SLCN20040PF	20–45μm, 100Å, 48g	15–30	48mg–0.96g	300/21	1
SLCN20080PF	20–45μm, 100Å, 105g	20–50	105mg–2.1g	300/21	1
SLCN20120PF	20–45μm, 100Å, 155g	30–60	155mg–3.1g	300/21	1
SLCN20220PF	20–45μm, 100Å, 300g	40–80	300mg–6.0g	250/17	1
SLCN20330PF	20–45μm, 100Å, 420g	40–80	420mg–8.4g	250/17	1

1.2.6 Spherical HILIC Column

Description

Hawach HILIC columns are compatible with polar and aqueous solvents, such methanol, acetonitrile and water, which allow much easier solvent handling than conventional normal phase separations. It becomes possible to separate and elute polar compounds that are strongly retained in the regular normal-phase mode or weakly retained in the reversed-phase mode.

1. Solution for compounds which are not soluble in non- or low polar solvents (hexane, isopropanol, toluene and dichloromethane).
2. Solution for highly polar compounds which have too much retention on silica columns.
3. Solution for a mixture of compounds with a broad range of polarity (non-polar, semi-polar, and high polar) with alternative selectivity.

Column Specification Surface Area: 300m^2/g

Average Pore Size: 100Å

Average Particle Size: 20-45μm

Carbon loading: 6%

Ordering Information

Item No.	Description	Flow Rate (ml/min)	Sample Size(g)	Max. Pressure (psi/bar)	Package (pcs/pk)
SLHLC20004PF	20–45μm, 100Å, 5.4g	5–15	5.4mg–108mg	300/21	2
SLHLC20012PF	20–45μm, 100Å, 20g	10–25	20mg–0.20g	300/21	1
SLHLC20025PF	20–45μm, 100Å, 33g	10–25	33mg–0.66g	300/21	1
SLHLC20040PF	20–45μm, 100Å, 48g	15–30	48mg–0.96g	300/21	1
SLHLC20080PF	20–45μm, 100Å, 105g	20–50	105mg–2.1g	300/21	1
SLHLC20120PF	20–45μm, 100Å, 155g	30–60	155mg–3.1g	300/21	1
SLHLC20220PF	20–45μm, 100Å, 300g	40–80	300mg–6.0g	250/17	1

SLHLC20330PF	20–45μm, 100Å, 420g	40–80	420mg–8.4g	250/17	1

1.2.7 Neutral Alumina Column

Description

The alumina flash columns are useful when the samples are sensitive and prone to degradation on silica gel.
High-quality alumina (50–75μm)
Unique, proprietary dry packing technique
Standard Luer-Lok inlet and Luer-Slip outlet
Innovative column design
High-cost performance

Ordering Information

Item No.	Description	Flow Rate (mL/min)	Sample Size	Max. Pressure (psi/bar)	Package (pcs/pk)
SLNA50004PF	Neutral alumina, 50–75μm, 8g	10-30	40mg-0.32g	200/14	1
SLNA50012PF	Neutral alumina, 50–75μm, 28g	15-45	120mg-1.0g	200/14	1
SLNA50025PF	Neutral alumina, 50–75μm, 46g	15-45	250mg-2.0g	200/14	1
SLNA50040PF	Neutral alumina, 50–75μm, 75g	20-50	400mg-3.2g	200/14	1
SLNA50080PF	Neutral alumina, 50–75μm, 150g	30-60	800mg-6.4g	200/14	1
SLNA50120PF	Neutral alumina, 50–75μm, 220g	30-70	1.2g-9.6g	200/14	1
SLNA50220PF	Neutral alumina, 50–75μm, 390g	40-80	2.2g-17.6g	150/10	1
SLNA50330PF	Neutral alumina, 50–75μm, 600g	50-120	3.3g-26.4g	150/10	1

1.2.8 Empty column

Description

Standard Luer-Lock end fittings allow for quick, easy connection to flash system
Innovative column design convenient for manual assembly and column stacking
Available in wide range of cartridge sizes for any situation
Reinforced cartridge body with maximum operating pressure up to 200psi

Order Information

Item No.	Description	Package (pcs/pk)
SLEP0004PF	4g empty solid load cartridge with screw cap, frits, tips and O-ring	optional
SLEP0012PF	12g empty solid load cartridge with screw cap, frits, tips and O-ring	optional
SLEP0025PF	25g empty solid load cartridge with screw cap, frits, tips and O-ring	optional

SLEP0040PF	40g empty solid load cartridge with screw cap, frits, disbursing unit, tips and O-ring	optional
SLEP0080PF	80g empty solid load cartridge with screw cap, frits, disbursing unit, tips and O-ring	optional
SLEP0120PF	120g empty solid load cartridge with screw cap, frits, disbursing unit, tips and O-ring	optional
SLEP0220PF	220g empty solid load cartridge with screw cap, frits, disbursing unit, tips and O-ring	optional
SLEP0330PF	330g empty solid load cartridge with screw cap, frits, disbursing unit, tips and O-ring	optional

1.3 DepuFlash Column

Features

- Chosen silica of homogeneous particle and pore size, special bonding technique, guarantee the good re-producibility and performance each batch
- Multiple choices, multiple packing material and size
- Adopt Luer Lock inlet and Luer Slip outlet, good compatibility with most of HPLC systems, such as Isco, Biotage, Armen etc
- Provide abundant applications
- Polypropylene tube and joints to tolerate the column pressure
- Cost-effective, high quality and high effective
- Specification: 4g,12g, 20g, 40g, 80g, 120g, 220g, 330g

Packing Material Instructions

Packing Materials	Particle Size(μm)	Pore Size(Å)	Surface Area(m^2/g)	Description
Irregular C18	40-63	60	/	Reversed phase, universal packing material
Spherical C18	20-45 40-75	120	480	Most popular C18 sorbent
Spherical Phenyl	20-45	120	480	Similar polarity to C18, additional polar secondary interactions enhanced retention of aromatic
Spherical CN	20-45	120	480	Can separate polar or non-polar compounds
Spherical NH2	20-45	120	480	Can be used for compounds containing –OH,-NH or –SH group by hydrogen bonding
Spherical SAX	20-45	120	480	Retains negatively charged compounds
Spherical SCX	20-45	120	480	Useful for compounds with cationic and basic characteristics

1.3.1 Irregular C18 Column

Order Information

Item No.	Description	Package (pcs/pk)
SLC18IR40004DF	Irregular C18, 40–63μm, 4g	20
SLC18IR40012DF	Irregular C18, 40–63μm, 12g	18
SLC18IR40025DF	Irregular C18, 40–63μm, 25g	12
SLC18IR40040DF	Irregular C18, 40–63μm, 40g	10
SLC18IR40080DF	Irregular C18, 40–63μm, 80g	10
SLC18IR40120DF	Irregular C18, 40–63μm, 120g	10
SLC18IR40220DF	Irregular C18, 40–63μm, 220g	6
SLC18IR40330DF	Irregular C18, 40–63μm, 330g	4

1.3.2 Spherical C18 Column

Description

With the popular universality, Reverse phase spherical silica C18 can satisfy the requirement of most of the separation. 20-40μm and 40-70μm provide separation in different degrees.

Order Information

Item No.	Description	Package (pcs/pk)
SLC18SP20004DF	Spherical C18, 20–40μm, 4g	20
SLC18SP20012DF	Spherical C18, 20–40μm, 12g	18
SLC18SP20025DF	Spherical C18, 20–40μm, 25g	12
SLC18SP20040DF	Spherical C18, 20–40μm, 40g	10
SLC18SP20080DF	Spherical C18, 20–40μm, 80g	10
SLC18SP20120DF	Spherical C18, 20–40μm, 120g	10
SLC18SP20220DF	Spherical C18, 20–40μm, 220g	6
SLC18SP20330DF	Spherical C18, 20–40μm, 330g	4

Item No.	Description	Package (pcs/pk)
SLC18SP40004DF	Spherical C18, 40–70μm, 4g	20
SLC18SP40012DF	Spherical C18, 40–70μm, 12g	18
SLC18SP40025DF	Spherical C18, 40–70μm, 25g	12
SLC18SP40040DF	Spherical C18, 40–70μm, 40g	10

SLC18SP40080DF	Spherical C18, 40–70μm, 80g	10
SLC18SP40120DF	Spherical C18, 40–70μm, 120g	10
SLC18SP40220DF	Spherical C18, 40–70μm, 220g	6
SLC18SP40330DF	Spherical C18, 40–70μm, 330g	4

1.3.3 Spherical Phenyl Column

Description

Similar polarity to C18, Bonding the phenyl functional groups, has good separation effect on the plane compounds and conjugated compounds.

Order Information

Item No.	Description	Package (pcs/pk)
SLPHSP20004DF	Spherical Phenyl, 20–40μm, 4g	20
SLPHSP20012DF	Spherical Phenyl, 20–40μm, 12g	18
SLPHSP20025DF	Spherical Phenyl, 20–40μm, 25g	12
SLPHSP20040DF	Spherical Phenyl, 20–40μm, 40g	10
SLPHSP20080DF	Spherical Phenyl, 20–40μm, 80g	10
SLPHSP20120DF	Spherical Phenyl, 20–40μm, 120g	10
SLPHSP20220DF	Spherical Phenyl, 20–40μm, 220g	6
SLPHSP20330DF	Spherical Phenyl, 20–40μm, 330g	4

1.3.4 Spherical CN Column

Description

Bonding the cyano functional groups, with both polar and non-polar interactions, can be used in the separation of some polar material and non-polar substances

Order Information

Item No.	Description	Package (pcs/pk)
SLCNSP20004DF	Spherical CN, 20–40μm, 4g	20
SLCNSP20012DF	Spherical CN, 20–40μm, 12g	18
SLCNSP20025DF	Spherical CN, 20–40μm, 25g	12
SLCNSP20040DF	Spherical CN, 20–40μm, 40g	10
SLCNSP20080DF	Spherical CN, 20–40μm, 80g	10
SLCNSP20120DF	Spherical CN, 20–40μm, 120g	10
SLCNSP20220DF	Spherical CN, 20–40μm, 220g	6

SLCNSP20330DF	Spherical CN, 20–40μm, 330g	4

1.3.5 Spherical NH_2 Column

Description

Bonding amino functional groups, can retain compounds which can form hydrogen bond, used for separation of compounds that can form hydrogen bonds, such as polysaccharides, polyols

Order Information

Item No.	Description	Package (pcs/pk)
SLNHSP20004DF	Spherical NH_2, 20–40μm, 4g	20
SLNHSP20012DF	Spherical NH_2, 20–40μm, 12g	18
SLNHSP20025DF	Spherical NH_2, 20–40μm, 25g	12
SLNHSP20040DF	Spherical NH_2, 20–40μm, 40g	10
SLNHSP20080DF	Spherical NH_2, 20–40μm, 80g	10
SLNHSP20120DF	Spherical NH_2, 20–40μm, 120g	10
SLNHSP20220DF	Spherical NH_2, 20–40μm, 220g	6
SLNHSP20330DF	Spherical NH_2, 20–40μm, 330g	4

1.3.6 Spherical SAX Column

Description

Bonding quaternary ammonium functional groups, often used to analyze the compounds with negative charge.

Order Information

Item No.	Description	Package (pcs/pk)
SLSAXSP20004DF	Spherical SAX, 20–40μm, 4g	20
SLSAXSP20012DF	Spherical SAX, 20–40μm, 12g	18
SLSAXSP20025DF	Spherical SAX, 20–40μm, 25g	12
SLSAXSP20040DF	Spherical SAX, 20–40μm, 40g	10
SLSAXSP20080DF	Spherical SAX, 20–40μm, 80g	10
SLSAXSP20120DF	Spherical SAX, 20–40μm, 120g	10
SLSAXSP20220DF	Spherical SAX, 20–40μm, 220g	6
SLSAXSP20330DF	Spherical SAX, 20–40μm, 330g	4

1.3.7 Spherical SCX Column

Description

Bonding benzene sulfonic acid functional groups, often used to analyze alkaline compounds with positive charge.

Order Information

Item No.	Description	Package (pcs/pk)
SLSCXSP20004DF	Spherical SCX, 20–40μm, 4g	20
SLSCXSP20012DF	Spherical SCX, 20–40μm, 12g	18
SLSCXSP20025DF	Spherical SCX, 20–40μm, 25g	12
SLSCXSP20040DF	Spherical SCX, 20–40μm, 40g	10
SLSCXSP20080DF	Spherical SCX, 20–40μm, 80g	10
SLSCXSP20120DF	Spherical SCX, 20–40μm, 120g	10
SLSCXSP20220DF	Spherical SCX, 20–40μm, 220g	6
SLSCXSP20330DF	Spherical SCX, 20–40μm, 330g	4

1.3.8 Spherical C8 Column

Description

C8 has very similar performance as C18. With the popular university, reverse phase spherical C8 can satisfy the requirement of most of the separations.

Order Information

Item No.	Description	Package (pcs/pk)
SLC8SP20004DF	Spherical C8, 20–40μm, 4g	20
SLC8SP20012DF	Spherical C8, 20–40μm, 12g	18
SLC8SP20025DF	Spherical C8, 20–40μm, 25g	12
SLC8SP20040DF	Spherical C8, 20–40μm, 40g	10
SLC8SP20080DF	Spherical C8, 20–40μm, 80g	10
SLC8SP20120DF	Spherical C8, 20–40μm, 120g	10
SLC8SP20220DF	Spherical C8, 20–40μm, 220g	6
SLC8SP20330DF	Spherical C8, 20–40μm, 330g	4

1.3.9 Spherical Diol Column

Description

Bonding 2-hydroxy propyl functional groups, used for the separation of peptide, protein, polar molecules, can also be applied to the separation of organic acid and its oligomer.

Order Information

Item No.	Description	Package (pcs/pk)
SLDISP20004DF	Spherical Diol, 20–40μm, 4g	20
SLDISP20012DF	Spherical Diol, 20–40μm, 12g	18
SLDISP20025DF	Spherical Diol, 20–40μm, 25g	12
SLDISP20040DF	Spherical Diol, 20–40μm, 40g	10
SLDISP20080DF	Spherical Diol, 20–40μm, 80g	10
SLDISP20120DF	Spherical Diol, 20–40μm, 120g	10
SLDISP20220DF	Spherical Diol, 20–40μm, 220g	6
SLDISP20330DF	Spherical Diol, 20–40μm, 330g	4