



SEPAFLASH™

Flash Columns

Standard Series

HP Series

Reversed Phase Series

Bonded Series

iLOK™ Series

SepaBean™ Machine

- Superior performance
- Highly-reproducible
- Compatible with all flash instruments



9001:2015

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Discover Santai Technologies



Established in 2004, Santai Technologies is a leading technology company dedicated to advancing separation and purification tools. With over 20 years of experience serving professionals and scientist in pharmaceuticals, biotechnology, fine chemicals, natural products, and petrochemical industries, we've become a trusted name in the global market.

Santai is renowned for its exceptional flash chromatography instruments and consumables, setting new standards in efficiency and precision.

Santai Science Inc.

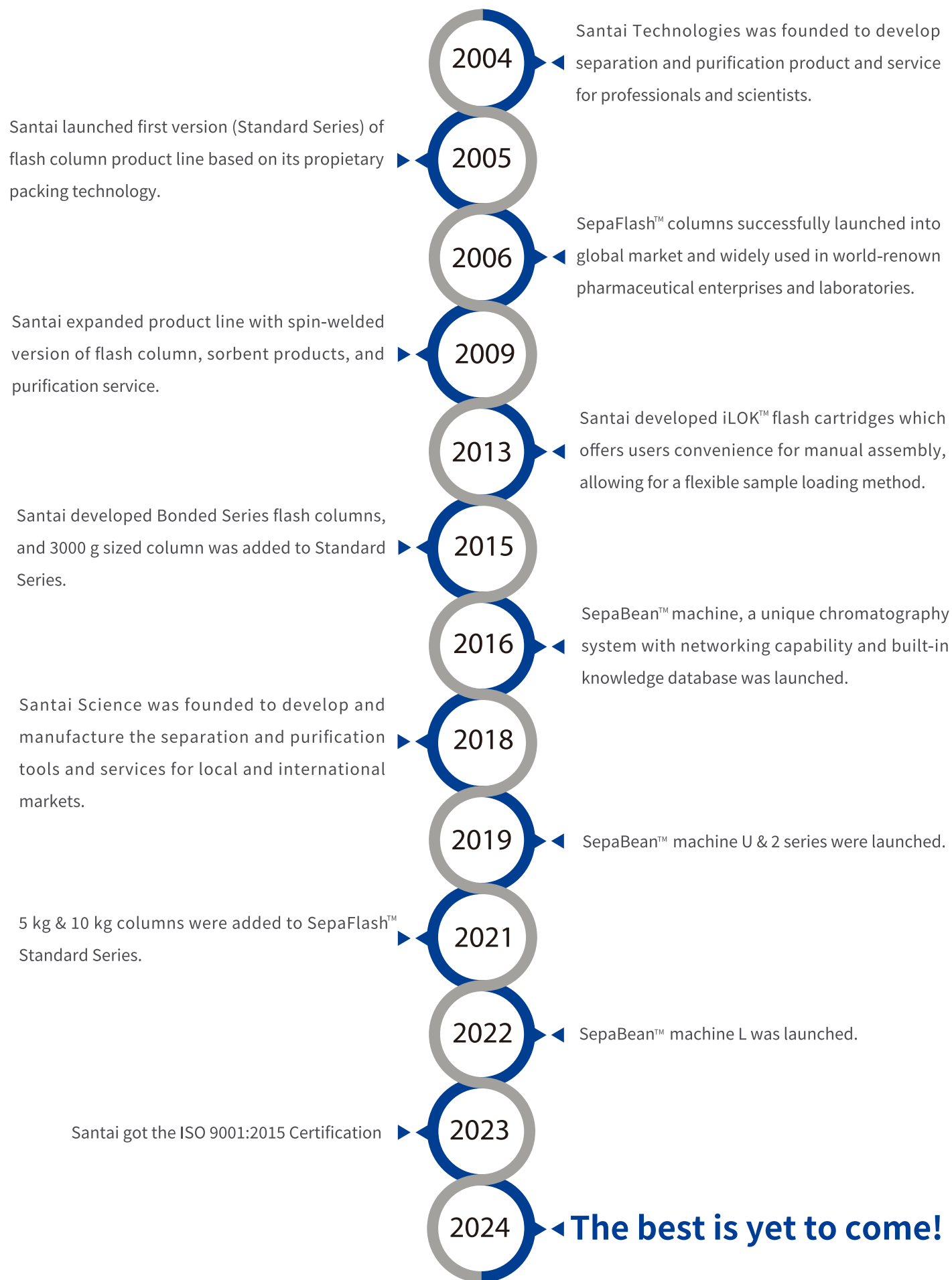
Established in 2018 as a sister company of Santai Technologies, Santai Science is headquartered in Montreal, Canada. Santai core mission revolves around the research, development, and manufacturing of cutting-edge separation and purification tools, tailored to cater to both local and international markets.



Our Extensive Global Reach



Santai extends its operations and warehousing services across America, Asia and Europe. This strategic presence ensures that our products and services are readily available and efficiently delivered to clients worldwide.



Welcome to Santai's Columns Family



Standard Series



HP Series



Bonded Series



iLOK Series(empty)



iLOK Series(pre-packed)



iLOK - SL
(Solid loading)

Product Highlights

Santai cartridges' advantages:

- Low fines; Neutral pH; 100% guaranteed media leak-free
- Clean, pre-packed, pharmaceutical-grade polypropylene cartridges
- Made with ultra-pure silica gel (we can pack your own media)
- Tight particle-size distribution to avoid leaching and channelling, no tailing
- Controlled water activity and water content in silica
- Innovative and semi-automated packing technology
- Five series available (Standard Series, HP Series, Bonded Series, Reversed Phase Series and iLOK™ Series)
- Proprietary coating technology for TLC plates available
- “Lot-to-lot” reproducibility since 2004

100% compatible with other instruments

- Teledyne Isco
- Biotage
- BUCHI
- Interchim
- Yamazen

SepaFlash™ Column Overview for Standard Series

The best solution in the market. Experience the swiftest and easiest purification process while effortlessly scaling up from milligrams to hundreds of grams.

1. Highly Reproducibility

Produced with proprietary dry packing technique for uniform packed sorbent bed with less channelling effect. Tighter band and symmetrical peak definition, resulting in higher resolution and reproducibility.

2. Versatile

SepaFlash™ columns are available from 4g up to 10kg column sizes allowing purification from 10mg up to 1kg. This product is packed with high-efficiency silica gels, which, provides an outstanding performance at low cost.



SepaFlash™ Column Overview for HP Series

The best solution in the market. Experience the swiftest and easiest purification process while effortlessly scaling up from milligrams to dozens of grams. This product is where efficiency meets economy for a sustainable chromatography process.

1. Reliable and Reproducible

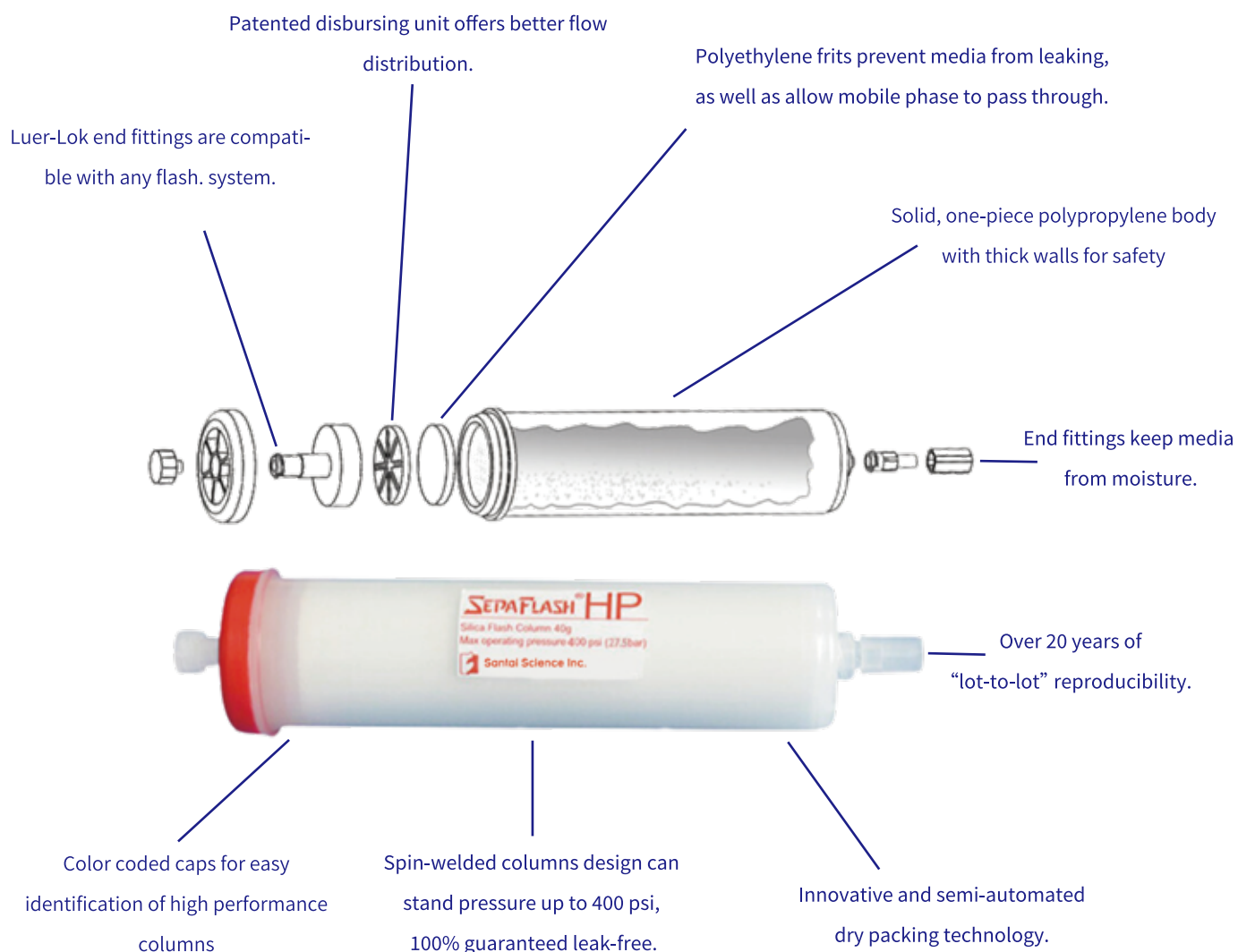
Produced with proprietary dry packing technique for uniform packed sorbent bed with less channelling effect. They feature patented design with standard luer-Lok end fittings for quick, easy connection to all flash systems on the market.

2. High Performance

The high-purity irregular silica gel found in this columns, the efficiency of smaller particle sizes, and higher backpressure capabilities results in a high-performance separation column, demonstrating superior capabilities also for difficult separations.

3. Solvent Saving

By employing smaller particle sizes, resulting in faster separations and reduced solvent consumption. In the purification of a pair of structural isomers, Fusion Columns cut the running time in half and decreased elution solvent usage by 50%, leading to a remarkable 30% to 40% overall cost reduction and is environmentally responsible.



SepaFlash™ Column Overview for iLOK™ Series

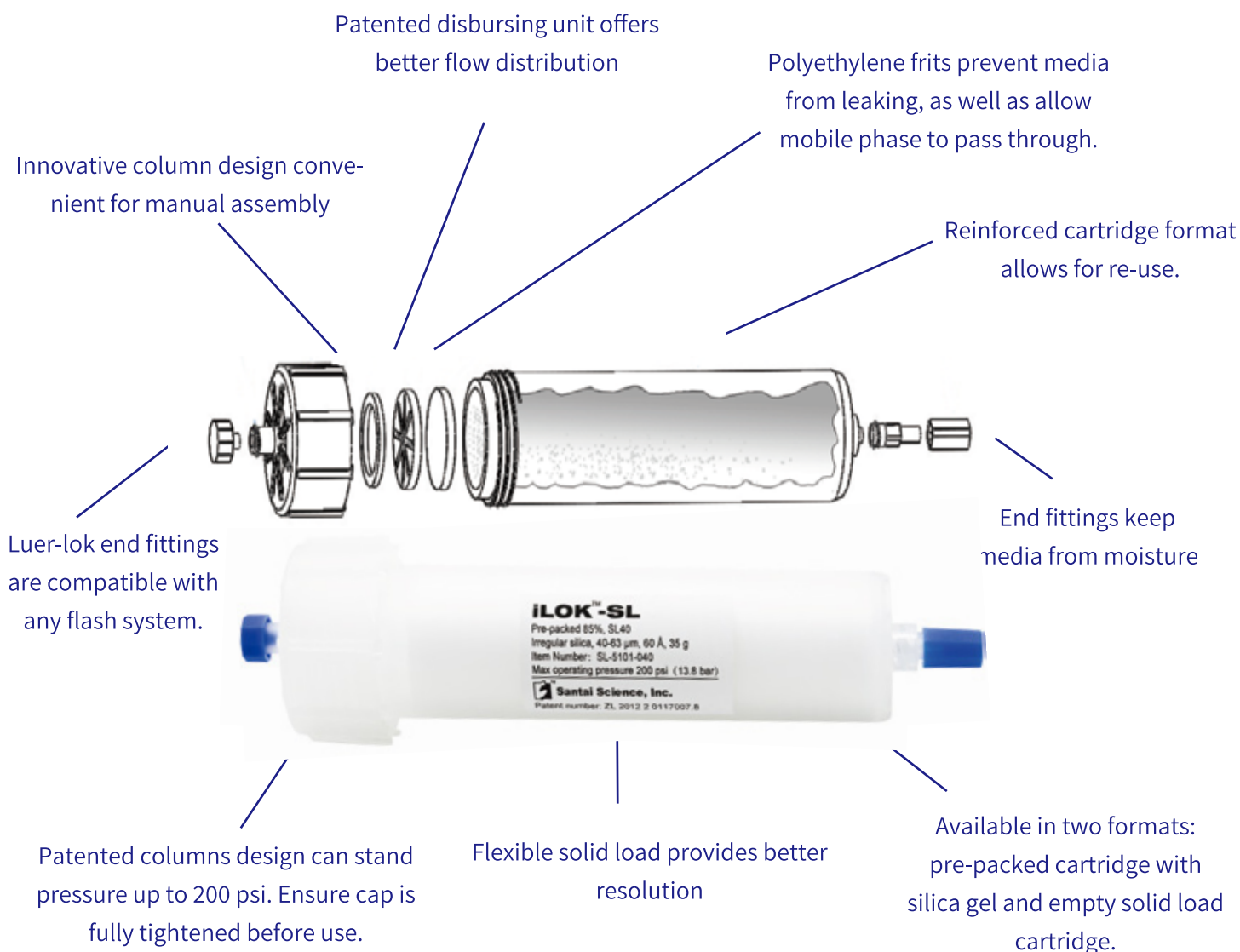
Discover the unparalleled performance of SepaFlash™ iLOK Series, a superior choice. These columns offer a seamless and efficient purification experience, ensuring swift and scale-up from milligram to several grams. Experience the convenience and speed you deserve for your purification processes.

1. Reliable and Reproducible

SepaFlash™ iLOK™ cartridges are offered in two formats: iLOK™ pre-packed cartridge and iLOK™ empty solid load cartridge. iLOK™ pre-packed cartridges are produced with proprietary dry packing technique for higher resolution and reproducibility. They feature patented design with standard Luer-Lok end fittings for quick, easy connection to all the flash systems on the market.

2. Versatile

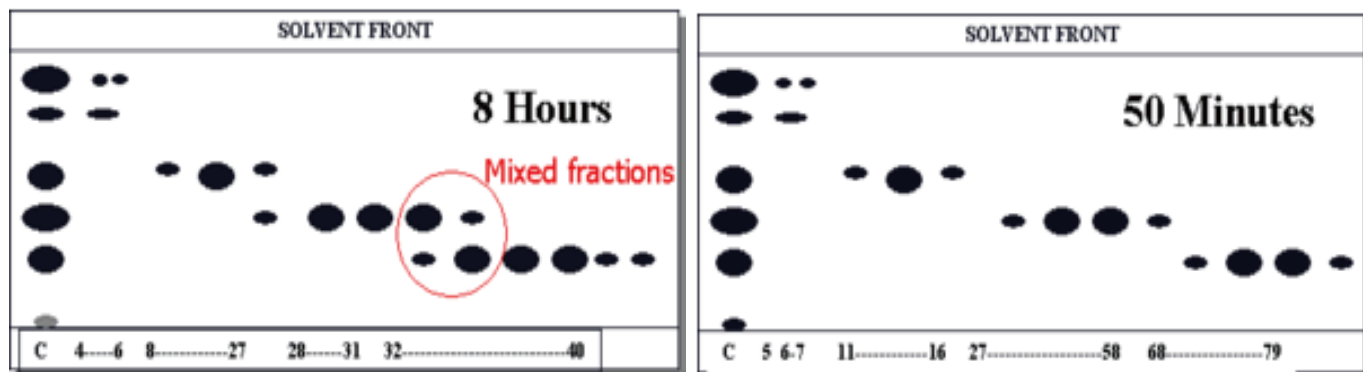
SepaFlash™ iLOK™ cartridges are available from 4g up to 330g column sizes allowing purification from 10mg up to 33g. They offer users convenience for manual assembly, allowing for a flexible sample loading method: solid load and direct liquid injection.



Advantages of Using SepaFlash™ Flash Columns

Compared with traditional manual glass column chromatography, SepaFlash™ automatic flash column chromatography have the following advantages:

- Using SepaFlash™ automatic flash column chromatography significantly reduces the separation and purification times when compared to traditional glass columns - see example:



- Automatic flash column chromatography can save the purification time and labour as well as solvent consumption in comparison to traditional manual glass column chromatography.
- Pre-packed SepaFlash™ flash columns greatly reduce the risk to human health and environment.

Tips for Using SepaFlash™ Chromatography Products

- ✓ SepaFlash™ silica flash columns are disposable and for single use, but with proper handling, SepaFlash™ silica cartridges can be used reused without sacrificing performance.
- ✓ SepaFlash™ alumina flash columns are useful when the samples are sensitive and prone to degradation on silica gel.
- ✓ SepaFlash™ bonded silica flash columns offer a wide variety of sorbents to better satisfy the requirements for different users, and this series can be used multiple times under the correct preservation conditions. See page 27 for more details.
- ✓ For safety reasons, do not operate the flash column above the indicated pressure printed on the column.
- ✓ For optimum use of the flash column, please use the eluents which have been filtered through a 0.45µm filter membrane to remove any impurity.

- Machine packed columns with ultra-pure silica gel using our proprietary dry packing technique.
- Ultra-pure silica features tight particle size distribution, low level of fines and low trace metal content, neutral pH, controlled water content and high surface area, providing scientist the desired reproducible experimental results.
- Unique, proprietary dry packing technique guarantees high resolution and reproducibility for everyday purifications.
- Improved pressure rated up to 300psi.



Ultra-pure irregular silica, 40–63μm, 60Å

(surface area 500 m²/g, pH 6.5–7.5, loading capacity 0.1–10%)



Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
S-5101-0004	4 g	4 mg – 0.4 g	15 - 40	105.8	12.4	300/20.7
S-5101-0012	12 g	12 mg – 1.2 g	30 - 60	124.5	21.2	300/20.7
S-5101-0025	25 g	25 mg – 2.5 g	30 - 60	172.7	21.3	300/20.7
S-5101-0040	40 g	40 mg – 4.0 g	40 - 70	176.0	26.7	300/20.7
S-5101-0080	80 g	80 mg – 8.0 g	50 - 100	248.5	30.9	250/17.2
S-5101-0120	120 g	120 mg – 12 g	60 - 150	261.5	37.2	250/17.2
S-5101-0220	220 g	220 mg – 22 g	80 - 220	215.9	59.4	200/13.8
S-5101-0330	330 g	330 mg – 33 g	80 - 220	280.3	59.8	200/13.8
S-5101-0800	800 g	800 mg – 80 g	100 - 300	382.9	78.2	100/6.9
S-5101-1600	1600 g	1.6 g – 160 g	200 - 500	432.4	103.8	100/6.9
S-5101-3000	3000 g	3 g – 300 g	200 - 500	509.5	127.5	100/6.9
S-5101-5000	5 kg	5 g – 500 g	200 - 500	770.0	127.5	100/6.9
S-5101-010K	10 kg	10 g – 1 kg	300 - 1000	850.0	172.5	100/6.9



Compatible with all flash chromatography systems in the world.



ISO 9001 Certificated.

High-quality irregular alumina, 50–75 µm, 55Å

(surface area 155 m²/g, pH 6.5-7.5, loading capacity 0.1–4%)



BEST SELLER

Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
S-8601-0004-N	8 g	8 mg – 0.32 g	10 - 30	105.8	12.4	300/20.7
S-8601-0012-N	24 g	24 mg – 1.0 g	15 - 45	124.5	21.2	300/20.7
S-8601-0025-N	50 g	50 mg – 2.0 g	15 - 45	172.7	21.3	300/20.7
S-8601-0040-N	80 g	80 mg – 3.2 g	20 - 50	176.0	26.7	300/20.7
S-8601-0080-N	160 g	160 mg – 6.4 g	30 - 70	248.5	30.9	250/17.2
S-8601-0120-N	240 g	240 mg – 9.6 g	40 - 80	261.5	37.2	250/17.2
S-8601-0220-N	440 g	440 mg – 17.6 g	50 - 120	215.9	59.4	200/13.8
S-8601-0330-N	660 g	660 mg – 26.4 g	50 - 120	280.3	59.8	200/13.8
S-8601-0800-N	1600 g	1.6 g – 64 g	100 - 200	382.9	78.2	100/6.9
S-8601-1600-N	3200 g	3.2 g – 128 g	150 - 300	432.4	103.8	100/6.9
S-8601-3000-N	6000 g	6.0 g – 240 g	150 - 300	509.5	127.5	100/6.9
S-8601-5000-N	10 kg	10 g – 400 g	150 - 300	770.0	127.5	100/6.9
S-8601-010K-N	20 kg	20 g – 800 g	200 - 600	850.0	172.5	100/6.9



Compatible with all flash chromatography systems.



ISO 9001 Certificated.

More Options

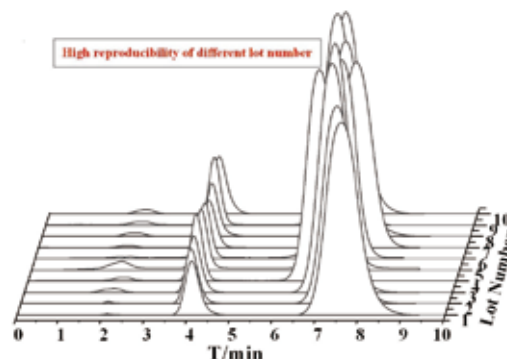
Name	Item Number
High-quality irregular alumina, 50-75 µm, 55Å pH: neutral 3.8-4.8, surface area 155 m /g, loading capacity 0.1-4%	S-8601-XXXX-A
High-quality irregular alumina, 50-75 µm, 55Å pH: basic 9.0-10.0, surface area 155 m /g, loading capacity 0.1-4%	S-8601-XXXX-B

Applications and results with SepaFlash™ columns

SepaFlash™ columns offer incredible performance over competitive products due to their higher silica gel quality and their innovative packing technique.

High Reproducibility with SepaFlash™

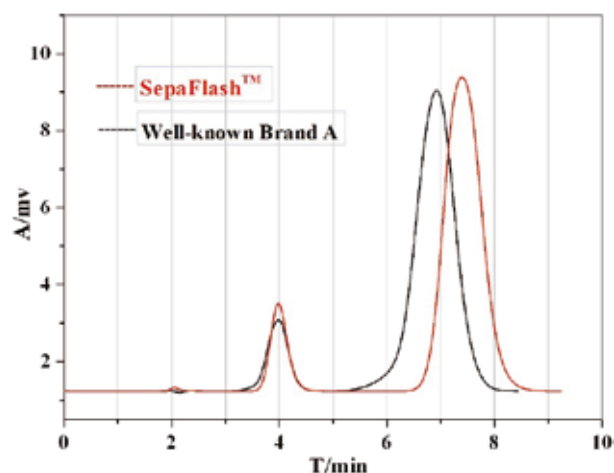
SepaFlash™ Silica Flash Column 120g	
Sample:	Acetophenone and P-Methoxyacetophenone
Mobile Phase:	80% hexane and 20% ethyl acetate
Flow Rate:	85 mL/min
Sample Size:	1.5 mL
Wavelength:	254nm



Better Resolution with SepaFlash™

Santai evaluated the performance of the SepaFlash™ columns compared to two well-known brands. Results show SepaFlash™ outperforms the competitors. Santai columns have better peak-to-peak resolution.

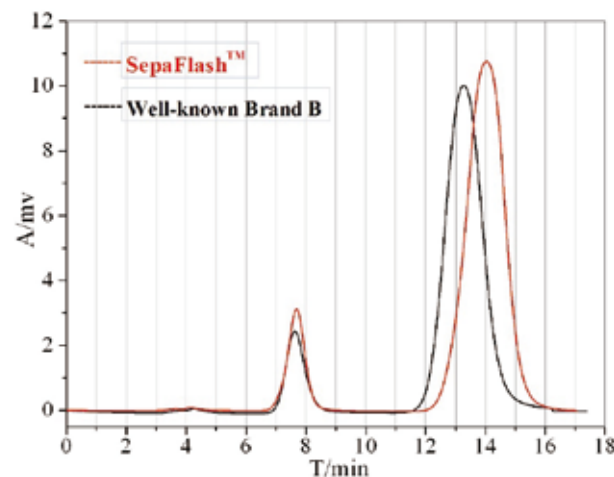
SepaFlash™ Silica Flash Column 120g	
Sample:	Acetophenone and P-Methoxyacetophenone
Mobile Phase:	80% hexane and 20% ethyl acetate
Flow Rate:	85 mL/min
Sample Size:	1.5 mL
Wavelength:	254nm



Observed Chromatographic Parameters

Column Size	t_R	N	R_s	T
SepaFlash™ 120g	4min	519	3.54	1.13
Brand A 120g	4min	408	2.73	0.92

SepaFlash™ 330g Versus Brand B 340g	
Sample:	Acetophenone and P-Methoxyacetophenone
Mobile Phase:	80% hexane and 20% ethyl acetate
Flow Rate:	120 mL/min
Sample Size:	5 mL
Wavelength:	254nm



Observed Chromatographic Parameters

Column Size	t_R	N	R_s	T
SepaFlash™ 330g	7.7min	539	3.54	0.97
Brand B 340g	7.6min	510	3.11	1.11

SepaFlash™ columns are now available in a 3 kg format which could purify up to 300g product in a single run with the same reliability and reproducibility. The 3 kg flash columns are spin-welded and can stand pressure up to 100psi (6.9bar). Universal Luer-Lok ending fittings are compatible with all the flash system on the market.

- Reliable, consistent performance from proprietary packing technique.
- Reinforced cartridge body with maximum operating pressure 100 psi.
- Luer-Lok end fittings compatible with all the flash system
- Faster purification runs to save time and solvent.



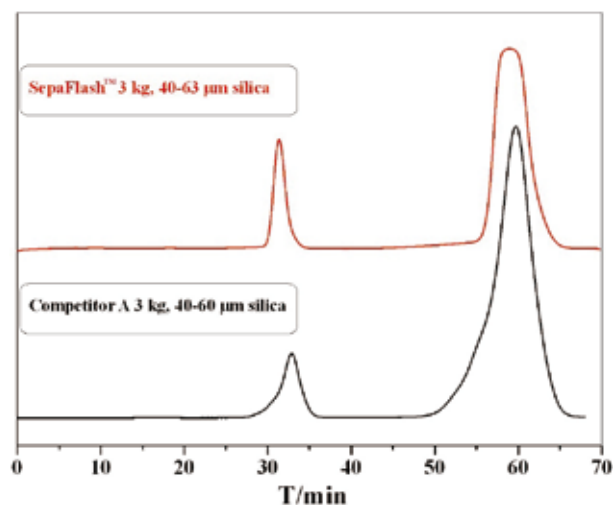
Better Separation with SepaFlash™

SepaFlash™ 3kg Versus Competitor A 3kg

Sample:	Acetophenone and P-Methoxyacetophenone
Mobile Phase:	80% hexane and 20% ethyl acetate
Flow Rate:	250 mL/min
Sample Size:	40 mL
Wavelength:	254nm

Observed Chromatographic Parameters

Column Size	t _R	N	R _s	T
SepaFlash™ 3kg	31min	890	5.13	1.20
Competitor A 3kg	33min	743	4.00	0.80



SepaFlash™ columns are now available in large sizes format which could purify up to 500g to 1Kg products in a single run.

- Reliable, consistent performance from proprietary packing technique.
- Reinforced cartridge body with maximum operating pressure 100psi.
Various adaptors for different OD tubings make it compatible with other large-scale flash systems on the market.
- Able to meet the process scale-up requirements from small-scale to pilot-scale.
- Pre-packed flash columns enable faster purification runs to save time and solvents.
- Disposable plastic column body enable easy and safe waste handling.

Large Size- 5 kg



Good Separations with SepaFlash™ 5kg

Sample:	Acetophenone and P-Methoxyacetophenone
Mobile Phase:	80% hexane and 20% ethyl acetate
Flow Rate:	250 mL/min
Sample Size:	60 mL
Wavelength:	254nm

Chromatographic Parameters

Column Size	t _R	N	R _s	T
SepaFlash™ 5kg	50min	617	6.91	1.00

Large Size- 10 kg



Good Separations with SepaFlash™ 10kg

Sample:	Acetophenone and P-Methoxyacetophenone
Mobile Phase:	80% hexane and 20% ethyl acetate
Flow Rate:	400 mL/min
Sample Size:	100 mL
Wavelength:	254nm

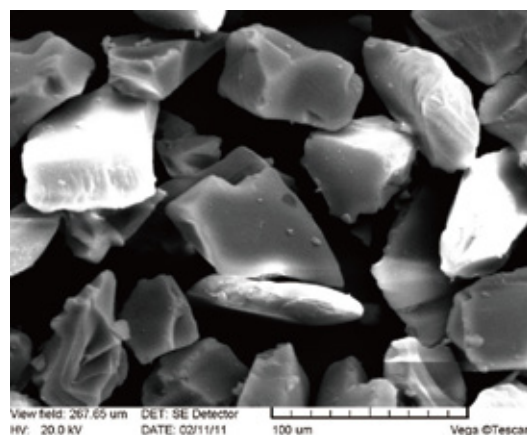
Chromatographic Parameters

Column Size	t _R	N	R _s	T
SepaFlash™ 10kg	65min	446	5.97	1.22

The characteristics for ultra-pure irregular silica gel

This cost efficient material has an irregular particle shape with smooth edges, a very narrow particle size distribution and the low level of fines offered by Santai, which will optimize your separating power and save you time and money. The irregular silica gel has two kinds of specifications, 40-63 μ m and 25-40 μ m.

Especially, Santai further develops the stable dry packing technique for irregular 25-40 μ m silica, and the pre-packed 25-40 μ m silica cartridges will show extraordinary separation ability.



SEM picture of 40-63 μ m silica gel

Santai's silica gel also offers these advantages over competitor's products:

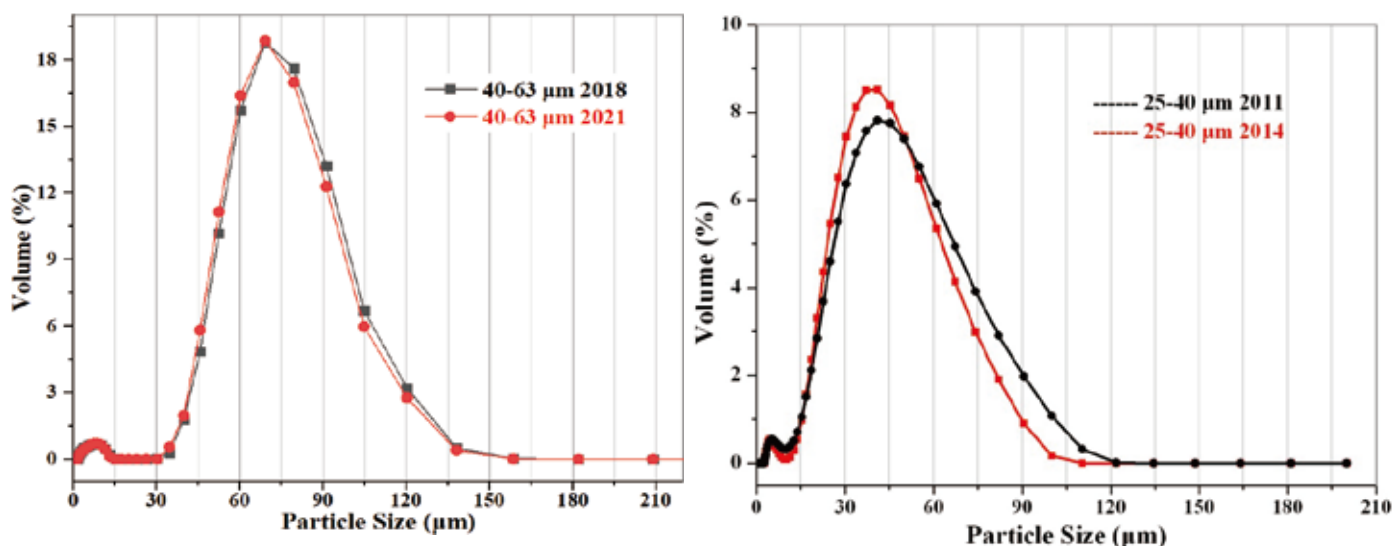
Neutral pH: The pH of Santai's irregular silica gel is kept between 6.5–7.5. A neutral pH is needed to separate pH sensitive compounds.

Stable water level content: Water level of silica gel can affect the selectivity of the silica. Santai's irregular silica gel has a controlled water content of 6% to 7%.

High surface area: Higher surface area (500m²/g for 60 Å pore size) provides greater separation power.

Tight particle size distribution and high batch-to-batch reproducibility: A narrower particle size distribution will give a more homogenous packing that will help in collecting more concentrated fractions and reducing solvent consumption, which will lead to cost savings. The high batch-to-batch reproducibility of particle size distribution fundamentally guarantees the excellent separation performance. For details please see the SEM picture and above particle size distribution of two batches below.

Particle size distribution of two batches for 40-63 μ m and 25-40 μ m silica gel



Particle size distribution of two batches for 40-63 μ m and 25-40 μ m silica gel

HP series flash columns are spin-welded and allow for higher back-pressure of up to 400psi. Available adapter facilitates compatibility with any flash system on the market. This series provides Luer-Lok in and Luer-Lok out for convenient column stacking. When pre-packed high-efficiency silica gel (irregular, 25-40 μ m, 60 Å; spherical, 20-45 μ m, 70 Å), this series presents an outstanding resolution over conventional flash cartridges. HP Fusion series with smaller irregular particle size (25-40 μ m) are suited for non-sticky and non-viscous mixtures. Compared to the HP Ruby (25 μ m, 700m²/g surface area) that is a great option for bigger loading capacity (30%).



All HP Series columns has those properties:

- Solid, one-piece polypropylene body with thick walls for safety
- Freely choose irregular silica or spherical silica according to your personal preference
- Significantly improved resolution and high load ability

HP Fusion Series **High resolution, more economical and solvent saving !**

High-efficiency irregular silica, 25–40 μ m, 60 Å

(surface area 500 m²/g, pH: 6.5-7.5, loading capacity 0.1–15%)

Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SW-5102-004	4 g	4 mg – 0.6 g	15 - 30	113.8	12.4	400/27.5
SW-5102-012	12 g	12 mg – 1.8 g	25 - 50	134.8	21.4	400/27.5
SW-5102-025	25 g	25 mg – 3.8 g	25 - 50	184.0	21.4	400/27.5
SW-5102-040	40 g	40 mg – 6.0 g	30 - 60	184.4	26.7	400/27.5
SW-5102-080	80 g	80 mg – 12 g	40 - 80	257.4	31.2	350/24.0
SW-5102-120	120 g	120 mg – 18 g	45 - 90	261.5	38.6	300/20.7
SW-5102-220	220 g	220 mg – 33 g	60 - 120	223.5	61.4	300/20.7
SW-5102-330	330 g	330 mg – 50 g	60 - 120	280.2	61.4	250/17.2
SW-5102-800	800 g	800 mg – 120 g	50 - 100	382.9	78.2	100/6.9
SW-5102-1600	1600 g	1.6 g – 240 g	50 - 100	432.4	103.8	100/6.9
SW-5102-3000	3 kg	3 g – 450 g	50 - 100	509.5	127.5	100/6.9
SW-5102-5000	5 kg	5 g – 750 g	50 - 100	770.0	127.5	100/6.9
SW-5102-010K	10 kg	10 g – 1.5 kg	50 - 100	850.0	172.5	100/6.9



Compatible with all flash chromatography systems.

HP- Platinum Series

High-efficiency spherical silica, 40–75µm, 70 Å

(surface area 500m²/g, pH 6.0–8.0, loading capacity 0.1–10%)

Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SW-2101-004-SP	4 g	4 mg – 0.4 g	15 - 40	113.8	12.4	400/27.5
SW-2101-012-SP	12 g	12 mg – 1.2 g	30 - 60	134.8	21.4	400/27.5
SW-2101-025-SP	25 g	25 mg – 2.5 g	30 - 60	184.0	21.4	400/27.5
SW-2101-040-SP	40 g	40 mg – 4.0 g	40 - 70	184.4	26.7	400/27.5
SW-2101-080-SP	80 g	80 mg – 8.0 g	50 - 100	257.4	31.2	350/24.0
SW-2101-120-SP	120 g	120 mg – 12 g	60 - 150	261.5	38.6	300/20.7
SW-2101-220-SP	220 g	220 mg – 22 g	80 - 220	223.5	61.4	300/20.7
SW-2101-330-SP	330 g	330 mg – 33 g	80 - 220	280.2	61.4	250/17.2
SW-2101-800-SP	800 g	800 mg – 80 g	50 - 100	382.9	78.2	100/6.9
SW-2101-1600-SP	1600 g	1.6 g – 160 g	50 - 100	432.4	103.8	100/6.9
SW-2101-3000-SP	3 kg	3 g – 300 g	50 - 100	509.5	127.5	100/6.9
SW-2101-5000-SP	5 kg	5 g – 500 g	50 - 100	770.0	127.5	100/6.9
SW-2101-010K-SP	10 kg	10 g – 1 kg	50 - 100	850.0	172.5	100/6.9

✓ Compatible with all flash chromatography systems.

High-efficiency spherical silica, 20–45µm, 70 Å

(surface area 500m²/g, pH 6.0–8.0, loading capacity 0.1–15%)

Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SW-2102-004-SP	4 g	4 mg – 0.6 g	15 - 30	113.8	12.4	400/27.5
SW-2102-012-SP	12 g	12 mg – 1.8 g	25 - 50	134.8	21.4	400/27.5
SW-2102-025-SP	25 g	25 mg – 3.8 g	25 - 50	184.0	21.4	400/27.5
SW-2102-040-SP	40 g	40 mg – 6.0 g	30 - 60	184.4	26.7	400/27.5
SW-2102-080-SP	80 g	80 mg – 12 g	40 - 80	257.4	31.2	350/24.0
SW-2102-120-SP	120 g	120 mg – 18 g	45 - 90	261.5	38.6	300/20.7
SW-2102-220-SP	220 g	220 mg – 33 g	60 - 120	223.5	61.4	300/20.7
SW-2102-330-SP	330 g	330 mg – 50 g	60 - 120	280.2	61.4	250/17.2
SW-2102-800-SP	800 g	800 mg – 120 g	50 - 100	382.9	78.2	100/6.9
SW-2102-1600-SP	1600 g	1.6 g – 240 g	50 - 100	432.4	103.8	100/6.9
SW-2102-3000-SP	3 kg	3 g – 450 g	50 - 100	509.5	127.5	100/6.9
SW-2102-5000-SP	5 kg	5 g – 750 g	50 - 100	770.0	127.5	100/6.9
SW-2102-010k-SP	10 kg	10 g – 1.5 kg	50 - 100	850.0	172.5	100/6.9

✓ Compatible with all flash chromatography systems.

HP Ruby Series Larger loading volume, less solvent usage, higher degree of separation

High capacity spherical silica (Ruby), 25µm, 50 Å

(surface area 700m²/g, pH 5.0–8.0, loading capacity 0.1–30%)



Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SW-2102-004-SP(H)	4 g	4 mg – 1.2 g	15 - 30	113.8	12.4	400/27.5
SW-2102-012-SP(H)	12 g	12 mg – 3.6 g	25 - 50	134.8	21.4	400/27.5
SW-2102-025-SP(H)	25 g	25 mg – 7.5 g	25 - 50	184.0	21.4	400/27.5
SW-2102-040-SP(H)	40 g	40 mg – 12 g	30 - 60	184.4	26.7	400/27.5
SW-2102-080-SP(H)	80 g	80 mg – 24 g	40 - 80	257.4	31.2	350/24.0
SW-2102-120-SP(H)	120 g	120 mg – 36 g	45 - 90	261.5	38.6	300/20.7
SW-2102-220-SP(H)	220 g	220 mg – 66 g	60 - 120	223.5	61.4	300/20.7
SW-2102-330-SP(H)	330 g	330 mg – 99 g	60 - 120	280.2	61.4	250/17.2
SW-2102-800-SP(H)	800 g	800 mg – 240 g	50 - 100	382.9	78.2	100/6.9
SW-2102-1600-SP(H)	1600 g	1.6 g – 480 g	50 - 100	432.4	103.8	100/6.9
SW-2102-3000-SP(H)	3 kg	3 g – 900 g	50 - 100	509.5	127.5	100/6.9
SW-2102-5000-SP(H)	5 kg	5 g – 1.5 kg	50 - 100	770.0	127.5	100/6.9
SW-2102-010K-SP(H)	10 kg	10 g – 3 kg	50 - 100	850.0	172.5	100/6.9

✓ Compatible with all flash chromatography systems.

High capacity spherical silica (Ruby), 50µm, 54 Å

(surface area 700m²/g, pH 6.0–8.0, loading capacity 0.1–30%)

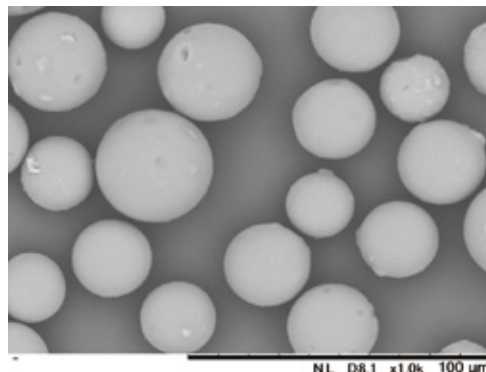
Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SW-2101-004-SP(H)	4 g	4 mg – 1.2 g	15 - 30	113.8	12.4	400/27.5
SW-2101-012-SP(H)	12 g	12 mg – 3.6 g	25 - 50	134.8	21.4	400/27.5
SW-2101-025-SP(H)	25 g	25 mg – 7.5 g	25 - 50	184.0	21.4	400/27.5
SW-2101-040-SP(H)	40 g	40 mg – 12 g	30 - 60	184.4	26.7	400/27.5
SW-2101-080-SP(H)	80 g	80 mg – 24 g	40 - 80	257.4	31.2	350/24.0
SW-2101-120-SP(H)	120 g	120 mg – 36 g	45 - 90	261.5	38.6	300/20.7
SW-2101-220-SP(H)	220 g	220 mg – 66 g	60 - 120	223.5	61.4	300/20.7
SW-2101-330-SP(H)	330 g	330 mg – 99 g	60 - 120	280.2	61.4	250/17.2
SW-2101-800-SP(H)	800 g	800 mg – 240 g	50 - 100	382.9	78.2	100/6.9
SW-2101-1600-SP(H)	1600 g	1.6 g – 480 g	50 - 100	432.4	103.8	100/6.9
SW-2101-3000-SP(H)	3 kg	3 g – 900 g	50 - 100	509.5	127.5	100/6.9
SW-2101-5000-SP(H)	5 kg	5 g – 1.5 kg	50 - 100	770.0	127.5	100/6.9
SW-2101-010K-SP(H)	10 kg	10 g – 3 kg	50 - 100	850.0	172.5	100/6.9

✓ Compatible with all flash chromatography systems.

The benefits for spherical silica gel

For spherical silica gel, strict quality controls from raw material to finished product ensure high lot-to-lot reproducibility and tightly controlled specifications.

- Consistency reliability, reproducibility
- No contamination, lower backpressure
- Superior separation
- Symmetrical peaks with no tailing
- Greater loading capacity



SEM picture of 20–45 μm spherical silica gel

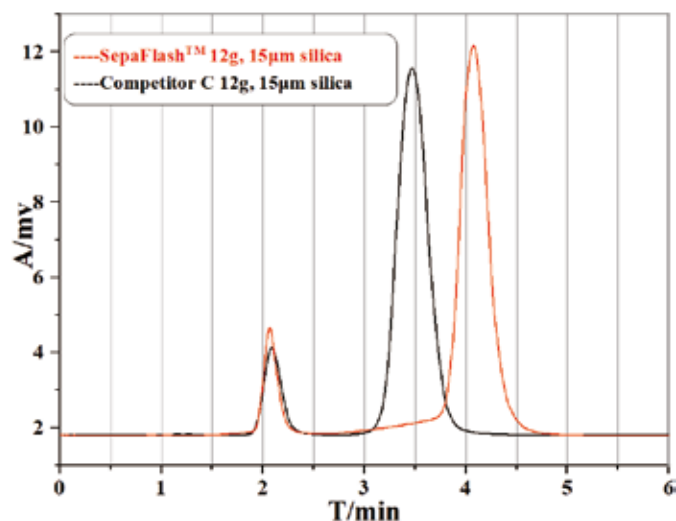
HP Series-High capacity spherical silica gel The Highest Purification Performance Available

HP series flash columns are precisely manufactured with high capacity silica gel, and deliver the highest purification performance available. The high capacity spherical silica has 40% higher surface area, doubling the loading capacity of lower surface area silica.

- High capacity silica with 40% more surface area
- Higher loading means smaller, faster and cheaper cartridges can be used for any separation
- Less solvent required
- The highest peak resolution

SepaFlash™ 12g Versus Competitor C 12g

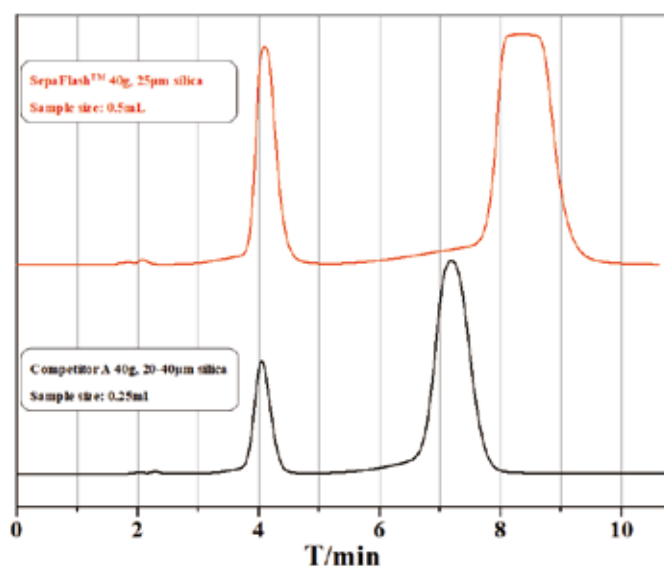
Sample:	Acetophenone and P-Methoxyacetophenone
Mobile Phase:	80% hexane and 20% ethyl acetate
Flow Rate:	0.20mL
Sample Size:	60mL
Wavelength:	254nm



100% High loading capacity, reducing the cost of your chemistry, saving solving, and usage with SepaFlash™

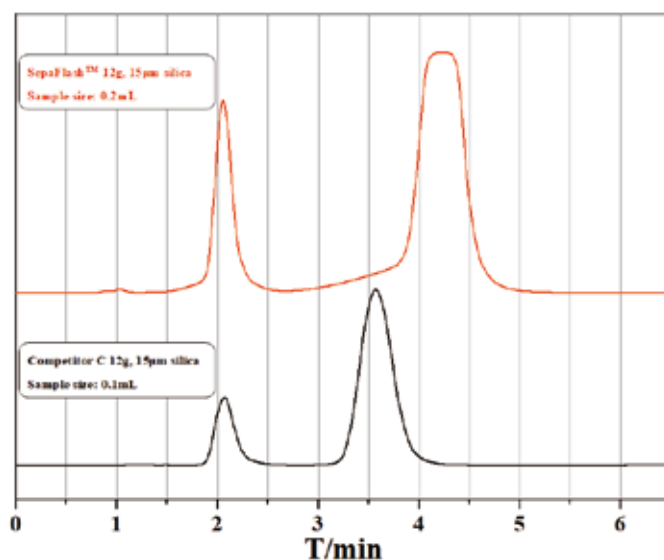
SepaFlash™ 40g Versus Competitor A 40g

Sample:	Acetophenone and P-Methoxyacetophenone 30mg/ml
Mobile Phase:	80% hexane and 20% ethyl acetate
Wavelength:	254nm



SepaFlash™ 12g Versus Competitor C 12g

Sample:	Acetophenone and P-Methoxyacetophenone 30mg/ml
Mobile Phase:	80% hexane and 20% ethyl acetate
Wavelength:	254nm



Irregular C18

Ultra-pure irregular C18, 40–63µm, 60 Å

(carbon content 17%, end-capping, surface area 500m²/g, loading capacity 0.1–2%)



Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SW-8201-004-IR	5.9 g	5.9 mg – 118 mg	10 - 20	113.8	12.4	400/27.5
SW-8201-012-IR	23 g	23 mg – 0.46 g	15 - 30	134.8	21.4	400/27.5
SW-8201-025-IR	38 g	38 mg – 0.76 g	15 - 30	184.0	21.4	400/27.5
SW-8201-040-IR	55 g	55 mg – 1.1 g	20 - 40	184.4	26.7	400/27.5
SW-8201-080-IR	122 g	122 mg – 2.5 g	30 - 60	257.4	31.2	350/24.0
SW-8201-120-IR	180 g	180 mg – 3.6 g	40 - 80	261.5	38.6	300/20.7
SW-8201-220-IR	340 g	340 mg – 6.8 g	50 - 100	223.5	61.4	300/20.7
SW-8201-330-IR	475 g	475 mg – 9.5 g	50 - 100	280.2	61.4	250/17.2



Compatible with all flash chromatography systems in the world.



Larger size specifications (800 g - 10 kg), are available for customize order.

Spherical C18

Ultra-pure spherical C18, 40-60µm, 120 Å

(carbon content 17%, end-capping, surface area 300m²/g, loading capacity 0.1–1.5%)



Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SW-5231-004-SP	4.5 g	4.5 mg – 68 mg	10 - 20	113.8	12.4	400/27.5
SW-5231-012-SP	18 g	18 mg – 0.27 g	15 - 30	134.8	21.4	400/27.5
SW-5231-025-SP	28 g	28 mg – 0.42 g	15 - 30	184.0	21.4	400/27.5
SW-5231-040-SP	40 g	40 mg – 0.60 g	20 - 40	184.4	26.7	400/27.5
SW-5231-080-SP	90 g	90 mg – 1.35 g	30 - 60	257.4	31.2	350/24.0
SW-5231-120-SP	130 g	130 mg – 1.95 g	40 - 80	261.5	38.6	300/20.7
SW-5231-220-SP	245 g	245 mg – 3.68 g	50 - 100	223.5	61.4	300/20.7
SW-5231-330-SP	350 g	350 mg – 5.25 g	50 - 100	280.2	61.4	250/17.2
SW-5231-800-SP	825 g	825 mg – 12.3 g	40 - 80	382.9	78.2	100/6.9
SW-5231-1600-SP	1660 g	1.7 g – 24.9 g	40 - 80	432.4	103.8	100/6.9
SW-5231-3000-SP	3094 g	3.1 g – 46.4 g	40 - 80	509.5	127.5	100/6.9



Compatible with all flash chromatography systems in the world.



Larger size specifications (800 g - 10 kg), are available for customize order.

High-efficiency spherical C18, 20-45µm, 100 Å

(carbon content 17%, end-capping, surface area 320m²/g, loading capacity 0.1–2%)



Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SW-8222-004-SP	5.4 g	5.4mg – 108 mg	5 - 15	113.8	12.4	400/27.5
SW-8222-012-SP	20 g	20 mg – 0.40 g	10 - 25	134.8	21.4	400/27.5
SW-8222-025-SP	33 g	33 mg – 0.66 g	10 - 25	184.0	21.4	400/27.5
SW-8222-040-SP	48 g	48 mg – 0.96 g	15 - 30	184.4	26.7	400/27.5
SW-8222-080-SP	105 g	105 mg – 2.1g	20 - 50	257.4	31.2	350/24.0
SW-8222-120-SP	155 g	155 mg – 3.1 g	30 - 60	261.5	38.6	300/20.7
SW-8222-220-SP	300 g	300 mg – 6.0 g	40 - 80	223.5	61.4	300/20.7
SW-8222-330-SP	420 g	420 mg – 8.4 g	40 - 80	280.2	61.4	250/17.2
SW-8222-800-SP	863 g	863 mg – 17.3 g	40 - 80	382.9	78.2	100/6.9
SW-8222-1600-SP	1726 g	1.7 g – 34.5 g	40 - 80	432.4	103.8	100/6.9
SW-8222-3000-SP	3600 g	3.6 g – 72 g	40 - 80	509.5	127.5	100/6.9



Compatible with all flash chromatography systems in the world.



Larger size specifications (5 kg - 10 kg), are available for customize order.

High-efficiency spherical C18, 15µm, 100 Å

(carbon content 17%, end-capping, surface area 320m²/g, loading capacity 0.1–2%)

Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SW-5223-004-SP	5.4 g	5.4 mg – 108 mg	5 - 15	113.8	12.4	400/27.5
SW-5223-012-SP	20 g	20 mg – 0.40 g	10 - 25	134.8	21.4	400/27.5
SW-5223-025-SP	33 g	33 mg – 0.66 g	10 - 25	184.0	21.4	400/27.5
SW-5223-040-SP	48 g	48 mg – 0.96 g	15 - 30	184.4	26.7	400/27.5
SW-5223-080-SP	105 g	105 mg – 2.1 g	20 - 50	257.4	31.2	350/24.0
SW-5223-120-SP	155 g	155 mg – 3.1 g	30 - 60	261.5	38.6	300/20.7
SW-5223-220-SP	290 g	290 mg – 5.8 g	40 - 80	223.5	61.4	300/20.7
SW-5223-330-SP	410 g	410 mg – 8.2 g	40 - 80	280.2	61.4	250/17.2
SW-5223-800-SP	886 g	886 mg – 17.7 g	40 - 80	382.9	78.2	100/6.9
SW-5223-1600-SP	1771 g	1.7 g – 35.4 g	40 - 80	432.4	103.8	100/6.9
SW-5223-3000-SP	3323 g	3.32 g – 66.46 g	40 - 80	509.5	127.5	100/6.9



Compatible with all flash chromatography systems in the world.



Larger size specifications (5 kg - 10 kg), are available for customize order.

C18 (AQ)

High-efficiency spherical C18(AQ), 15µm, 100 Å

(carbon content 10%, end-capping, surface area 320m²/g, loading capacity 0.1–2%)

Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SW-5223-004-SP(AQ)	4.2 g	4.2 mg – 84 mg	5 - 15	113.8	12.4	400/27.5
SW-5223-012-SP(AQ)	15.8 g	15.8 mg – 3.16 g	10 - 25	134.8	21.4	400/27.5
SW-5223-025-SP(AQ)	27 g	27 mg – 5.4 g	10 - 25	184.0	21.4	400/27.5
SW-5223-040-SP(AQ)	38.5 g	38.5 mg – 7.7 g	15 - 30	184.4	26.7	400/27.5
SW-5223-080-SP(AQ)	86.1 g	86.1 mg – 1.72 g	20 - 50	257.4	31.2	350/24.0
SW-5223-120-SP(AQ)	127.8 g	127.8 mg - 2.56 g	30 - 60	261.5	38.6	300/20.7
SW-5223-220-SP(AQ)	244 g	244 mg – 4.88g	40 - 80	223.5	61.4	300/20.7
SW-5223-330-SP(AQ)	365 g	365 mg – 7.3 g	40 - 80	280.2	61.4	250/17.2

- ✓ Compatible with all flash chromatography systems in the world.
- ✓ Larger size specifications (800 g - 330 g), are available for customize order.
- ✓ AQ: It is a 100% water phase resistant aqueous column that is suitable for high water mobile phase analysis

CannFlash™ Cannabis Speciality Cartridge

High-efficiency spherical C4 ~ 8,20-45µm, 100 Å

(carbon content 10%, end-capping, surface area 320m²/g, loading capacity 0.1–6%)



Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SW-5CAN-004-SP	5.4 g	5.4 mg – 324 mg	5 - 15	113.8	12.4	400/27.5
SW-5CAN-012-SP	20 g	20 mg – 1.2 g	10 - 25	134.8	21.4	400/27.5
SW-5CAN-025-SP	33 g	33 mg – 1.98 g	10 - 25	184.0	21.4	400/27.5
SW-5CAN-040-SP	48 g	48 mg – 2.88 g	15 - 30	184.4	26.7	400/27.5
SW-5CAN-080-SP	105 g	105 mg – 6.3 g	20 - 50	257.4	31.2	350/24.0
SW-5CAN-120-SP	155 g	155 mg - 9.3 g	30 - 60	261.5	38.6	300/20.7
SW-5CAN-220-SP	300 g	300 mg – 18.0 g	40 - 80	223.5	61.4	300/20.7
SW-5CAN-330-SP	420 g	420 mg – 25.2 g	40 - 80	280.2	61.4	250/17.2

- ✓ Compatible with all flash chromatography systems in the world.
- ✓ Larger size specifications (800 g - 10 kg), are available for customize order.

More C18 Options

C18	Ultra-pure irregular C18, 40–63µm, 60 Å	SW-5201-XXX-IR
	Ultra-pure irregular C18, 40–63µm, 90 Å	SW-5211-XXX-IR
	High-efficiency spherical C18(AQ), 20–45µm, 100 Å	SW-5222-XXX-SP(AQ)
	High-capacity spherical C18, 40µm, 100 Å	SW-822A-XXX-SP
	High-capacity spherical C18, 20–30µm, 50 Å	SW-5202-XXX-SP(H)
	High-capacity spherical C18, 15µm, 60 Å	SW-5203-XXX-SP(H)
	High-capacity spherical C18, 40–75µm, 100Å	SW-5221-XXX-SP
	High-efficiency spherical C18(THE), 20–45µm, 100 Å	SW-5222-XXX-SP(THE)
	High-efficiency spherical C18, 30–50µm, 120 Å	SW-5232-XXX-SP
	High-efficiency spherical C18(HE), 20–45µm, 300 Å	SW-5272-XXX-SP(HE)

More Bonded Reversed Phase Options

C8	High-efficiency spherical C8, 20–45µm, 100 Å	SW-5822-XXX-SP
	High-efficiency spherical C8(AQ), 20–30µm, 50 Å	SW-5802-XXX-SP(AQ)
	High-efficiency spherical C8(AQ), 20–45µm, 100 Å	SW-5822-XXX-SP(AQ)
	High-efficiency spherical C8(AQ), 15µm, 100 Å	SW-5823-XXX-SP(AQ)
	High-efficiency spherical C8(HE), 20–45µm, 300 Å	SW-5872-XXX-SP(HE)
C4	High-efficiency spherical C4, 20–45µm, 100 Å	SW-5422-XXX-SP

Bonded series flash columns feature the same high quality cartridges as the HP Series, but they are filled with ultra-pure, high-quality, high-efficiency bonded silica. This series offers a wide variety of sorbents to better meet the various purification needs.

- Available in a wide variety of specifications
- High pressure rated up to 400psi
- Up to 50 times
- Economical substitute for preparative HPLC
- Meet a variety of needs for specific purifications



NH₂ Columns

Ultra-pure irregular NH₂ , 40-63μm, 60 Å

(amino content 1.3mmol/g, end-capping, surface area 500m²/g, loading capacity 0.1–2%)



Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SW-5501-004-IR	5.9g	5.9 mg – 118 mg	10 - 20	113.8	12.4	400/27.5
SW-5501-012-IR	23 g	23 mg – 0.46 g	15 - 30	134.8	21.4	400/27.5
SW-5501-025-IR	38 g	38 mg – 0.76 g	15 - 30	184.0	21.4	400/27.5
SW-5501-040-IR	55 g	55 mg - 1.1 g	20 - 40	184.4	26.7	400/27.5
SW-5501-080-IR	122 g	122 mg – 2.5 g	30 - 60	257.4	31.2	350/24.0
SW-5501-120-IR	180 g	180 mg - 3.6 g	40 - 80	261.5	38.6	300/20.7
SW-5501-220-IR	340 g	340 mg – 6.8 g	50 - 100	223.5	61.4	300/20.7
SW-5501-330-IR	475 g	475 mg – 9.5 g	50 - 100	280.2	61.4	250/17.2
SW-5501-800-IR	840 g	840 mg – 16.8 g	50 - 100	382.9	78.2	100/6.9
SW-5501-1600-IR	1764 g	1.76 g – 35.28 g	40 - 80	432.4	103.8	100/6.9
SW-5501-3000-IR	3150 g	3.15 g – 63 g	40 - 80	509.5	127.5	100/6.9

- ✓ Compatible with all flash chromatography systems in the world.
- ✓ Larger size specifications (5 kg - 10 kg), are available for customize order.

High-capacity spherical NH₂ , 20-30µm, 50 Å

(amino content 1.8 mmol/g, end-capping, surface area 700m²/g, loading capacity 0.1–3%)

Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SW-5502-004-SP(H)	5.9 g	5.9 mg – 177 mg	5 - 15	113.8	12.4	400/27.5
SW-5502-012-SP(H)	23 g	23 mg – 0.69 g	10 - 25	134.8	21.4	400/27.5
SW-5502-025-SP(H)	38 g	38 mg – 1.14 g	10 - 25	184.0	21.4	400/27.5
SW-5502-040-SP(H)	55 g	55 mg – 1.65 g	15 - 30	184.4	26.7	400/27.5
SW-5502-080-SP(H)	122 g	122 mg – 3.66 g	20 - 50	257.4	31.2	350/24.0
SW-5502-120-SP(H)	180 g	180 mg – 5.4 g	30 - 60	261.5	38.6	300/20.7
SW-5502-220-SP(H)	340 g	340 mg – 10.2 g	40 - 80	223.5	61.4	300/20.7
SW-5502-330-SP(H)	475 g	475 mg – 14.3 g	40 - 80	280.2	61.4	250/17.2



Compatible with all flash chromatography systems in the world.



Larger size specifications (800 g - 10 kg), are available for customize order.

Diol Columns (HILIC-D)

High-efficiency spherical Diol, 20-45µm, 100 Å

(carbon content 5%, end-capping, surface area 320m²/g, loading capacity 0.1–2%)



Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SW-5922-004-SP	4 g	4 mg – 80 mg	5 - 15	113.8	12.4	400/27.5
SW-5922-012-SP	16 g	16 mg – 320 mg	10 - 25	134.8	21.4	400/27.5
SW-5922-025-SP	25 g	25 mg – 0.5 g	10 - 25	184.0	21.4	400/27.5
SW-5922-040-SP	41.5 g	41.5 mg – 0.83 g	15 - 30	184.4	26.7	400/27.5
SW-5922-080-SP	83 g	83 mg – 1.66 g	20 - 50	257.4	31.2	350/24.0
SW-5922-120-SP	120 g	120 mg – 2.4 g	30 - 60	261.5	38.6	300/20.7
SW-5922-220-SP	233 g	233 mg – 4.66 g	40 - 80	223.5	61.4	300/20.7
SW-5922-330-SP	332 g	332 mg – 6.64 g	40 - 80	280.2	61.4	250/17.2



Compatible with all flash chromatography systems in the world.



Larger size specifications (800 g - 10 kg), are available for customize order.

ARG Columns (HILIC)

High-efficiency spherical ARG, 20-45µm, 100 Å

(carbon content 6%, end-capping, surface area 320m²/g, loading capacity 0.1–2%)



Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SW-5622-004-SP	5.4 g	5.4 mg – 108 mg	5 - 15	113.8	12.4	400/27.5
SW-5622-012-SP	20 g	20 mg – 0.40 g	10 - 25	134.8	21.4	400/27.5
SW-5622-025-SP	33 g	33 mg – 0.66 g	10 - 25	184.0	21.4	400/27.5
SW-5622-040-SP	48 g	48 mg – 0.96 g	15 - 30	184.4	26.7	400/27.5
SW-5622-080-SP	105 g	105 mg – 2.1 g	20 - 50	257.4	31.2	350/24.0
SW-5622-120-SP	155 g	155 mg – 3.1 g	30 - 60	261.5	38.6	300/20.7
SW-5622-220-SP	300 g	300 mg – 6.0 g	40 - 80	223.5	61.4	300/20.7
SW-5622-330-SP	420 g	420 mg – 8.4 g	40 - 80	280.2	61.4	250/17.2
SW-5622-800-SP	886 g	886 mg – 17.7 g	50 - 100	382.9	78.2	100/6.9
SW-5622-1600-SP	1772 g	1.77 g – 35.44 g	40 - 80	432.4	103.8	100/6.9
SW-5622-3000-SP	3323 g	3.32 g – 66.46 g	40 - 80	509.5	127.5	100/6.9



Compatible with all flash chromatography systems in the world.



Larger size specifications (5 kg - 10 kg), are available for customize order.

HILIC: Hydrophilic Interaction Liquid Chromatography.

CN Columns

High-efficiency spherical CN, 20-45µm, 100 Å

(carbon content 5.5%, end-capping, surface area 320m²/g, loading capacity 0.1–2%)

Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SW-5322-004-SP	5.4 g	5.4 mg – 108 mg	5 - 15	113.8	12.4	400/27.5
SW-5322-012-SP	20 g	20 mg – 0.40 g	10 - 25	134.8	21.4	400/27.5
SW-5322-025-SP	33 g	33 mg – 0.66 g	10 - 25	184.0	21.4	400/27.5
SW-5322-040-SP	48 g	48 mg – 0.96 g	15 - 30	184.4	26.7	400/27.5
SW-5322-080-SP	105 g	105 mg – 2.1 g	20 - 50	257.4	31.2	350/24.0
SW-5322-120-SP	155 g	155 mg – 3.1 g	30 - 60	261.5	38.6	300/20.7
SW-5322-220-SP	300 g	300 mg – 6.0 g	40 - 80	223.5	61.4	300/20.7
SW-5322-330-SP	420 g	420 mg – 8.4 g	40 - 80	280.2	61.4	250/17.2
SW-5322-800-SP	836 g	836 mg – 16.7 g	50 - 100	382.9	78.2	100/6.9
SW-5322-1600-SP	1756 g	1.75 g – 35.12 g	40 - 80	432.4	103.8	100/6.9
SW-5322-3000-SP	3135 g	3.13 g – 62.7 g	40 - 80	509.5	127.5	100/6.9



Compatible with all flash chromatography systems in the world.



Larger size specifications (5 kg - 10 kg), are available for customize order.

Phenyl Columns

High-efficiency spherical Phenyl, 20-45µm, 100 Å

(carbon content 10%, end-capping, surface area 320m²/g, loading capacity 0.1–2%)

Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SW-5B22-004-SP	5.4 g	5.4 mg – 108 mg	5 - 15	113.8	12.4	400/27.5
SW-5B22-012-SP	20 g	20 mg – 0.40 g	10 - 25	134.8	21.4	400/27.5
SW-5B22-025-SP	33 g	33 mg – 0.66 g	10 - 25	184.0	21.4	400/27.5
SW-5B22-040-SP	48 g	48 mg – 0.96 g	15 - 30	184.4	26.7	400/27.5
SW-5B22-080-SP	105 g	105 mg – 2.1 g	20 - 50	257.4	31.2	350/24.0
SW-5B22-120-SP	155 g	155 mg – 3.1 g	30 - 60	261.5	38.6	300/20.7
SW-5B22-220-SP	300 g	300 mg – 6.0 g	40 - 80	223.5	61.4	300/20.7
SW-5B22-330-SP	420 g	420 mg – 8.4 g	40 - 80	280.2	61.4	250/17.2



Compatible with all flash chromatography systems in the world.



Larger size specifications (800 g - 10 kg), are available for customize order.

Phenyl-Hexyl Columns

High-efficiency spherical Phenyl-Hexyl, 20-45µm, 100 Å

(carbon content 10%, end-capping, surface area 320m²/g, loading capacity 0.1–2%)

Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SW-5C22-004-SP	5.4 g	5.4 mg – 108 mg	5 - 15	113.8	12.4	400/27.5
SW-5C22-012-SP	20 g	20 mg – 0.40 g	10 - 25	134.8	21.4	400/27.5
SW-5C22-025-SP	33 g	33 mg – 0.66 g	10 - 25	184.0	21.4	400/27.5
SW-5C22-040-SP	48 g	48 mg – 0.96 g	15 - 30	184.4	26.7	400/27.5
SW-5C22-080-SP	105 g	105 mg – 2.1 g	20 - 50	257.4	31.2	350/24.0
SW-5C22-120-SP	155 g	155 mg – 3.1 g	30 - 60	261.5	38.6	300/20.7
SW-5C22-220-SP	300 g	300 mg – 6.0 g	40 - 80	223.5	61.4	300/20.7
SW-5C22-330-SP	420 g	420 mg – 8.4 g	40 - 80	280.2	61.4	250/17.2



Compatible with all flash chromatography systems in the world.



Larger size specifications (800 g - 10 kg), are available for customize order.

Ion Exchange Columns

Ultra-pure irregular SCX, 40-63 μ m, 60 Å

(carbon content 10%, surface area 500m²/g, ion-exchange capacity 0.307–0.341meq/g)

Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SW-5701-004-IR	5.9 g	1.81 – 2.01 meq	10 - 20	113.8	12.4	400/27.5
SW-5701-012-IR	23 g	7.06 – 7.84 meq	15 - 30	134.8	21.4	400/27.5
SW-5701-025-IR	38 g	11.7 – 13.0 meq	15 - 30	184.0	21.4	400/27.5
SW-5701-040-IR	55 g	16.9 – 18.8 meq	20 - 40	184.4	26.7	400/27.5
SW-5701-080-IR	122 g	37.5 – 41.6 meq	30 - 60	257.4	31.2	350/24.0
SW-5701-120-IR	180 g	55.3 – 61.4 meq	40 - 80	261.5	38.6	300/20.7
SW-5701-220-IR	340 g	104.4 – 115.9 meq	50 - 100	223.5	61.4	300/20.7
SW-5701-330-IR	475 g	145.8 – 162.0 meq	50 - 100	280.2	61.4	250/17.2



Compatible with all flash chromatography systems in the world.



Larger size specifications (800 g - 10 kg), are available for customize order.

Ultra-pure irregular SAX, 40-63 μ m, 60 Å

(carbon content 8%, surface area 500m²/g, ion-exchange capacity 0.200–0.260meq/g)

Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SW-5001-004-IR	5.9 g	1.18 – 1.53 meq	10 - 20	113.8	12.4	400/27.5
SW-5001-012-IR	23 g	4.60 – 5.98 meq	15 - 30	134.8	21.4	400/27.5
SW-5001-025-IR	38 g	7.60 – 9.88 meq	15 - 30	184.0	21.4	400/27.5
SW-5001-040-IR	55 g	11.0 – 14.3 meq	20 - 40	184.4	26.7	400/27.5
SW-5001-080-IR	122 g	24.4 – 31.7 meq	30 - 60	257.4	31.2	350/24.0
SW-5001-120-IR	180 g	36.0 – 46.8 meq	40 - 80	261.5	38.6	300/20.7
SW-5001-220-IR	340 g	68.0 – 88.4 meq	50 - 100	223.5	61.4	300/20.7
SW-5001-330-IR	475 g	95.0 – 123.5 meq	50 - 100	280.2	61.4	250/17.2



Compatible with all flash chromatography systems in the world.



Larger size specifications (800 g - 10 kg), are available for customize order.

SepaFlash™ Bonded Series flash columns offer enhanced performance and extended lifespan when subjected to appropriate preconditioning, cleaning, and storage practices.



Pre-Conditioning

1. Connect the SepaFlash Bonded Series flash column to the chromatography system.
2. Flush the column with 4-6 column volumes (CV) of methanol or acetonitrile at the optimal flow rate (refer to table for column data) .
3. Subsequently, flush the column with an additional 2 CV of 1:1 methanol:water or 1:1 acetonitrile:water.
4. Equilibrate the column with 3-6 CV of the mobile phase intended for flash chromatography (refer to Table for column data) .

Cleaning Procedure

1. After each run, flush the column with a cleaning solvent with higher elutropic strength, especially if the mobile phase contains no acidic, basic, or salty additives.
2. If the mobile phase lacks such additives, use 90% methanol in water as the cleaning solvent. Flush the column with this solution for 5 CV.
3. In case the mobile phase contains salty additives as a buffer solution, replace the aqueous part of the mobile phase with pure water and flush the column for 5 CV.
4. Subsequently, flush the column with 100% organic phase for an additional 5 CV to prevent potential damage from the precipitation of salty additives.

Post-Run Cleaning Recommendations

- With proper cleaning after run, columns can be reused up to fifty times or more.
- Ensure thorough cleaning to maintain column performance and reliability.
- Adhere to the recommended cleaning solvents and procedures for the specific chromatographic conditions encountered.

Storage

- **Avoid Drying Out Reversed Phase columns:** Never attempt to dry out a reversed-phase column once it has been wetted. Drying may induce channeling due to the expansion and contraction of the stationary phase.
- **Capped and Wet Storage:** Store the column in a well-capped condition, immersed in a solvent with a high ratio of the organic phase. Recommended solvents for column storage include 80% - 95% acetonitrile, methanol, or ethanol in water.

SepaFlash Bonded Series, Irregular Silica family, 40-63 µm , 60 Å		
Column Media Weight (g)	Column Media Volume (mL)	Column Media Flow rate (mL/min)
5.9	3.6	15
23	14	20
38	23	20
55	33	25
122	70	30
180	103	40
340	195	60
475	272	60

SepaFlash Bonded Series, Irregular Silica family, 40-63 µm , 60 Å		
Column Media Weight (g)	Column Media Volume (mL)	Column Media Flow rate (mL/min)
5.4	4.3	15
20	16	20
33	26	20
48	38	25
105	83	30
155	122	40
300	236	60
420	331	60

A fast, highly efficient and low cost method for the purification of peptides

SepaFlash Bio Series are available in a wide range of cartridge sizes for any situation, allowing purification from 10mg to 3g of target substrate. These cartridges are pre-packed with UltraPure spherical C18, C8 or C4 bonded silica gel to meet the demands of biomolecule purification. Reinforced cartridge body allows for higher pressure rated up to 400psi, fully compatible with all the flash system on the market.

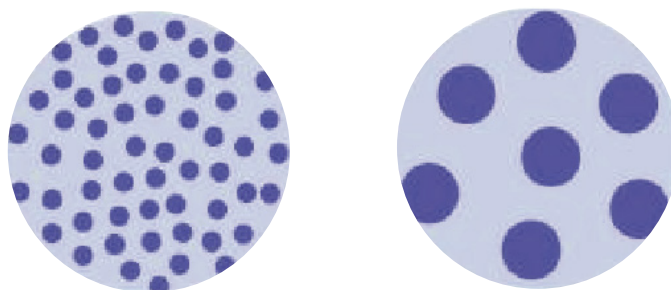


- High sample loading capacity as well as high peak resolution
- Improved pressure rated up to 400psi
- Fast and cost-saving method for raw biomolecule purification
- large pore size up to 300Å are available for long chain peptides purification

User Guide to Choose Proper Media for Biomolecule Flash Purification

Pore Size-Effect on Chromatography

Larger pores allow larger target molecules to interact with the functional groups on purification media therefore better retention of the target molecules can be achieved, thus achieving better separation performance. Choose a pore size of 150Å or less for sample MW $\leq$ 2000. Choose a pore size of 300Å for sample MW > 2000.



High-efficiency spherical C18, 20-45µm, 300 Å

(carbon content 6%, end-capping, surface area 100m²/g, loading capacity 0.1–1%)

Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
Bio-SW-5272-004-SP	4.5 g	4.5 mg – 45 mg	5 - 15	113.8	12.4	400/27.5
Bio-SW-5272-012-SP	16 g	16 mg – 0.16 g	10 - 25	134.8	21.4	400/27.5
Bio-SW-5272-025-SP	26 g	26 mg – 0.26 g	10 - 25	184.0	21.4	400/27.5
Bio-SW-5272-040-SP	38 g	38 mg – 0.38 g	15 - 30	184.4	26.7	400/27.5
Bio-SW-5272-080-SP	82 g	82 mg – 0.82 g	20 - 50	257.4	31.2	350/24.0
Bio-SW-5272-120-SP	120 g	120 mg - 1.2 g	30 - 60	261.5	38.6	300/20.7
Bio-SW-5272-220-SP	225 g	225 mg – 2.3 g	40 - 80	223.5	61.4	300/20.7
Bio-SW-5272-330-SP	320 g	320 mg – 3.2 g	40 - 80	280.2	61.4	250/17.2



Compatible with all flash chromatography systems in the world.



Larger size specifications (800 g - 10 Kg), are available for customize order.

High-efficiency spherical C8, 20-45µm, 300 Å

(carbon content 3%, end-capping, surface area 100m²/g, loading capacity 0.1–1%)

Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
Bio-SW-5872-004-SP	4.5 g	4.5 mg – 45 mg	5-15	113.8	12.4	400/27.5
Bio-SW-5872-012-SP	16 g	16 mg – 0.16 g	10 - 25	134.8	21.4	400/27.5
Bio-SW-5872-025-SP	26 g	26 mg – 0.26 g	10 - 25	184.0	21.4	400/27.5
Bio-SW-5872-040-SP	38 g	38 mg – 0.38 g	15 - 30	184.4	26.7	400/27.5
Bio-SW-5872-080-SP	82 g	82 mg – 0.82 g	20 - 50	257.4	31.2	350/24.0
Bio-SW-5872-120-SP	120 g	120 mg - 1.2 g	30 - 60	261.5	38.6	300/20.7
Bio-SW-5872-220-SP	225 g	225 mg – 2.3 g	40 - 80	223.5	61.4	300/20.7
Bio-SW-5872-330-SP	320 g	320 mg – 3.2 g	40 - 80	280.2	61.4	250/17.2
Bio-SW-5872-800-SP	755 g	755 mg – 7.55 g	40 - 80	382.9	78.2	100/6.9
Bio-SW-5872-1600-SP	1748 g	1.74 g – 17.48 g	40 - 80	432.4	103.8	100/6.9
Bio-SW-5872-3000-SP	3268 g	3.26 g – 32.68 g	40 - 80	509.5	127.5	100/6.9



Compatible with all flash chromatography systems in the world.



Larger size specifications (5 kg - 10 kg), are available for customize order.

High-efficiency spherical C4, 20-45µm, 300 Å

(carbon content 2%, end-capping, surface area 100m²/g, loading capacity 0.1–1%)

Item Number	Column Size	Sample Size	Flow Rate (mL/min)	Cartridge Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
Bio-SW-5472-004-SP	4.5 g	4.5 mg – 45 mg	5 - 15	113.8	12.4	400/27.5
Bio-SW-5472-012-SP	16 g	16 mg – 0.16 g	10 - 25	134.8	21.4	400/27.5
Bio-SW-5472-025-SP	26 g	26 mg – 0.26 g	10 - 25	184.0	21.4	400/27.5
Bio-SW-5472-040-SP	38 g	38 mg – 0.38 g	15 - 30	184.4	26.7	400/27.5
Bio-SW-5472-080-SP	82 g	82 mg – 0.82 g	20 - 50	257.4	31.2	350/24.0
Bio-SW-5472-120-SP	120 g	120 mg - 1.2 g	30 - 60	261.5	38.6	300/20.7
Bio-SW-5472-220-SP	225 g	225 mg - 2.3 g	40 - 80	223.5	61.4	300/20.7
Bio-SW-5472-330-SP	320 g	320 mg – 3.2 g	40 - 80	280.2	61.4	250/17.2



Compatible with all flash chromatography systems in the world.



Larger size specifications (800 g - 10 kg), are available for customize order.

SepaFlash™ iLOK™ flash cartridges offer users convenience for manual assembly, allowing for a flexible sample loading method: solid load and direct liquid injection. There are two formats: iLOK™ flash cartridge pre-packed with ultra-pure silica gel (40–63 µm, 60 Å) and iLOK™ empty solid load cartridge with screw cap.



- Innovative column design for manual assembly and column stacking
- Available in wide range of cartridge sizes for various usage
- Reinforced cartridge body with maximum operating pressure of 200 psi

iLOK™ Empty Solid Load Cartridges

(iLOK™ empty solid load cartridge with screw cap, frits, disbursing unit, O-ring and end tips.)



Item Number	Description	Volume (mL)	Length (mm)	Cartridge ID (mm)	Max. Pressure (psi/bar)
SD-0000-004	Empty solid load cartridge, 4g	8	60	12.8	200/13.8
SD-0000-012	Empty solid load cartridge, 12g	27	76	21.8	200/13.8
SD-0000-025	Empty solid load cartridge, 25g	46	126	21.6	200/13.8
SD-0000-040	Empty solid load cartridge, 40g	70	125	26.8	200/13.8
SD-0000-060	Empty solid load cartridge, 60g	104	99	36.6	200/13.8
SD-0000-080	Empty solid load cartridge, 80g	147	193	31.2	200/13.8
SD-0000-100	Empty solid load cartridge, 100g	176	61	60.4	150/10.3
SD-0000-120	Empty solid load cartridge, 120g	215	204	36.6	200/13.8
SD-0000-220	Empty solid load cartridge, 220g	377	131	60.6	150/10.3
SD-0000-330	Empty solid load cartridge, 330g	539	187	60.6	150/10.3
SD-0000-0800B-1	Empty solid load cartridge, 800g	1395	122	127	100/6.9
SD-0000-1600B-1	Empty solid load cartridge, 1600g	2760	230	127	100/6.9
SD-0000-3000B-1	Empty solid load cartridge, 3000g	5165	420	127	100/6.9
SD-0000-5000B-1	Empty solid load cartridge, 5000g	8610	692	127	100/6.9
SD-0000-7000B-1	Empty solid load cartridge, 7000g	12510	1000	127	100/6.9

- ✓ Compatible with all flash chromatography systems in the world.
- ✓ Length approximate when filled to stated capacity.

iLOK™-SL Openable Columns (Twist-Cap) for Solid Loading with 15% Free Space on Top!

iLOK™-SL Cartridges offer users convenience for manual assembly, allowing for a flexible sample loading method: solid load and direct liquid injection. Our unique, proprietary dry packing technique guarantees high resolution and reproducibility for everyday purifications.



Versatile and Safe

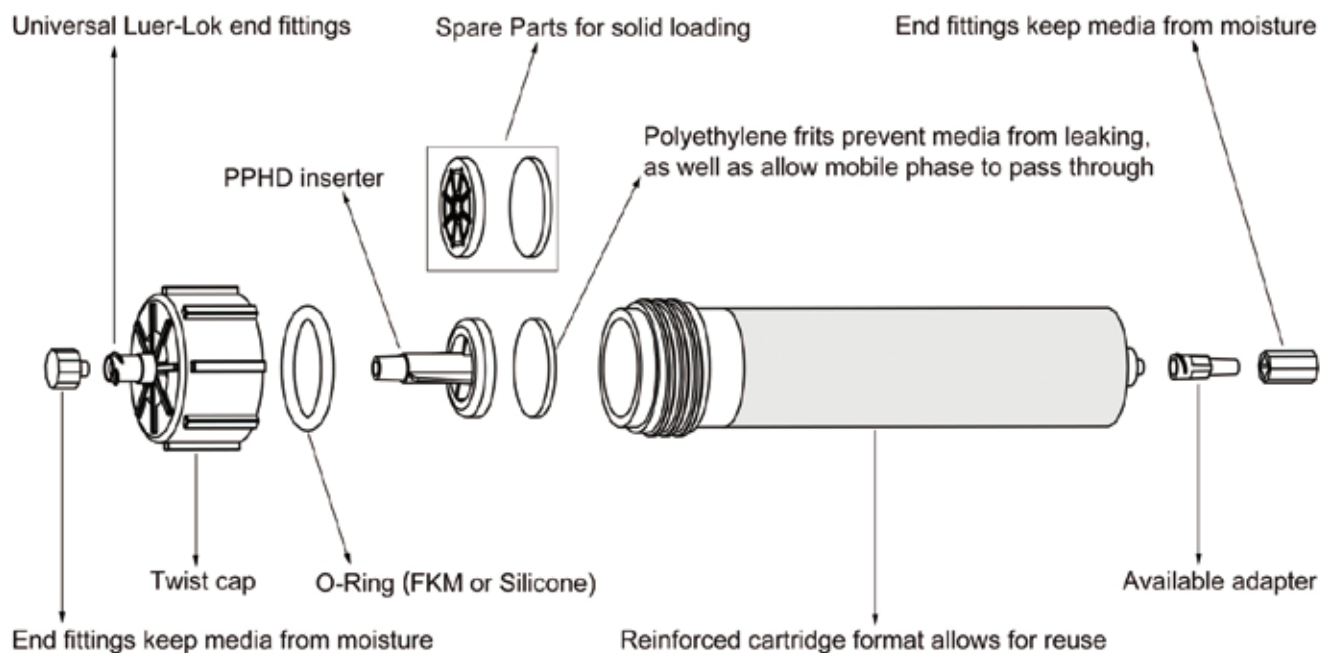
iLOK™-SL Cartridges are available in a wide range of cartridge sizes, allowing purification from milligram to dozens of grams. They are packed with Ultra-pure silica (irregular or spherical), alumina, C18, C18(AQ), C8, C8(AQ), C4, DIOL, CN, NH₂, SAX, SCX, ARG, Phenyl or Phenyl-Hexyl. Reinforced cartridge body allows for maximum pressure of up to 200 psi, fully compatible with all the flash system on the market.

Advantages

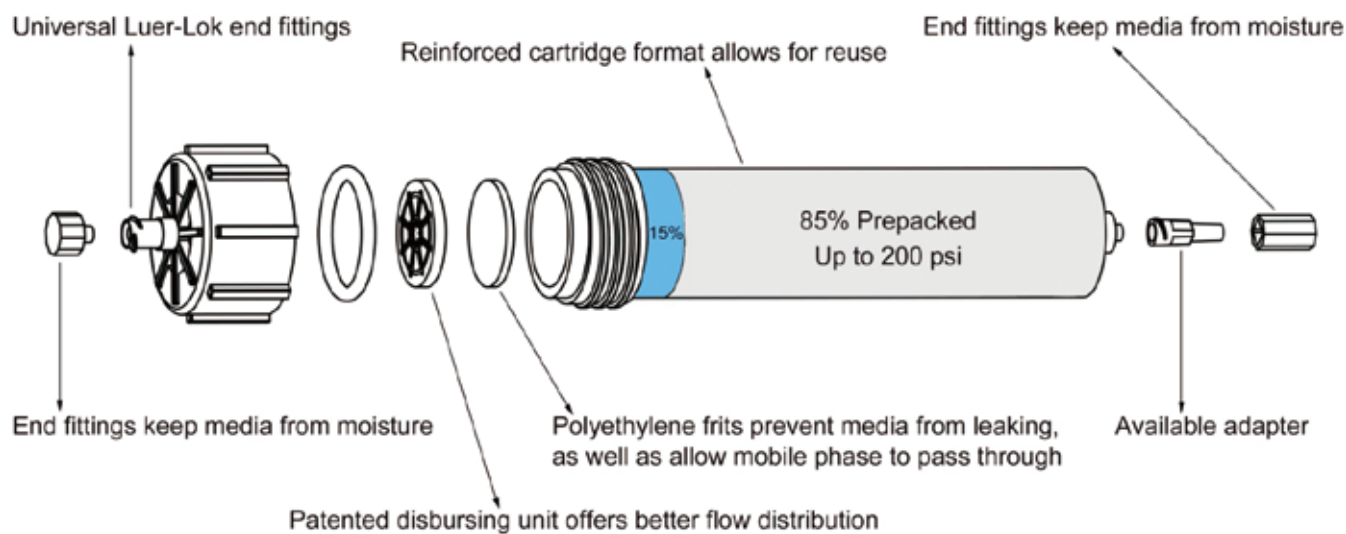
- Universal fitting
- Flexible sample loading options
- Improved pressure rated up to 200psi
- Innovative design convenient for manual assembly
- Higher peak resolution than competitive cartridges

iLOK™-SL Cartridges Structure Diagram

iLOK™-SL with Inserter Standard assembly for liquid injection



iLOK™-SL Cartridges for Solid Loading 15% Sample and 85% Prepacked Media



Ensure cap is fully tightened before use.

Sample Loading Guidelines

Pre-equilibrating cartridge

- Remove end fittings.
- Eliminate the thermal effect from solvent adsorption on a dry cartridge.
- Ensure pre-equilibrium between the solvent and the silica.
- Entrapped air, the thermal effect and lack of equilibrium can cause separation, purity and recovery problems, especially with early eluting compounds.
- In general the recommended pre-equilibration volume is 3-5 column volumes prior to sample loading. If using gradient elution, pre-equilibrate with the starting solvent mixture.

Loading samples

- Liquid loading: each iLOK™ cartridges is supplied with a built-in inserter, which allows liquid injection via a syringe.
- Solid loading: if internal solid loading is to be used, this inserter must be removed. For optional purification with iLOK™ -SL cartridges follow steps as shown below.



Screw cap from the cartridge.



Press the center post and remove the PPHD inserter from cartridge.



Add media into the headspace and tap lightly. Don't overfill.



Add a top frit on the added media and align the frit horizontally .



Use the frit insertion rod to press the fruit into space.



Add a disbursing unit on the top frit.



Put back the screw cap into the cartridge .



The tightening process will set the frit into place.

iLOK™-SL cartridges offer users convenience for manual assembly, allowing for flexible sample loading methods: solid loading and direct liquid injection.



Ensure cap is fully tightened before use.

More options in iLok-SL SERIES

Item Number	Description
SL-5101-XXX	Ultra-pure irregular silica, 40–63µm, 60Å
SL-2102-XXX-SP(H)	High-capacity spherical silica, 25µm, 50Å
SL-2102-XXX-SP	High-efficiency spherical silica, 20–45µm, 70Å
SL-8601-XXX-N	High-quality irregular neutral alumina, 50–75µm, 55Å
SL-8601-XXX-A	High-quality irregular acidic alumina, 50–75µm, 55Å
SL-8601-XXX-B	High-quality irregular basic alumina, 50–75µm, 55Å
SL-5201-XXX-IR	Ultra-pure irregular C18, 40–63µm, 60Å
SL-5211-XXX-IR	Ultra-pure irregular C18, 40–63µm, 90Å
SL-5202-XXX-SP(H)	High-capacity spherical C18, 20–30µm, 50Å
SL-5231-XXX-SP	Ultra-pure spherical C18, 40–60µm, 120Å
SL-5232-XXX-SP	High-efficiency spherical C18, 30–50µm, 120Å
SL-5221-XXX-SP	Ultra-pure spherical C18, 40–75µm, 100Å
SL-5222-XXX-SP	High-efficiency spherical C18, 20–45µm, 100Å
SL-5222-XXX-SP(AQ)	High-efficiency spherical C18(AQ), 20–45µm, 100Å
SL-5322-XXX-SP	High-efficiency spherical CN, 20–45µm, 100Å
SL-5422-XXX-SP	High-efficiency spherical C4, 20–45µm, 100Å
SL-5822-XXX-SP	High-efficiency spherical C8, 20–45µm, 100Å
SL-5822-XXX-SP(AQ)	High-efficiency spherical C8(AQ), 20–45µm, 100Å
SL-5922-XXX-SP	High-efficiency spherical Diol, 20–45µm, 100Å
SL-5501-XXX-IR	Ultra-pure irregular NH ₂ , 40–63µm, 60Å
SL-5502-XXX-SP(H)	High-capacity spherical NH ₂ , 20–30µm, 50Å
SL-5001-XXX-IR	Ultra-pure irregular SAX, 40–63µm, 60Å
SL-5701-XXX-IR	Ultra-pure irregular SCX, 40–63µm, 60Å
SL-5622-XXX-SP	High-efficiency spherical ARG, 20–45µm, 100Å
SL-5B22-XXX-SP	High-efficiency spherical Phenyl, 20–45µm, 100Å
SL-5C22-XXX-SP	High-efficiency spherical Phenyl-Hexyl, 20–45µm, 100Å

Solution for solid Loading

Solid sample loading is a useful technique to load samples onto a column, particularly useful for low-solubility samples. On this occasion, iLOK™ flash cartridge is a great choice.

The sample can be dissolved in one or two solvents regardless of polarity. The solution is then absorbed onto silica gel (normal phase) or diatomaceous earths (reversed phase) for a ratio of 1:4 (sample:silica). After the removal of the solvent, the solid dry pack can be put on top of the partly filled cartridge or into an empty cartridge.

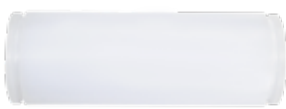


Optional accessories and bulk silica gel are available for orders

iLOK™ empty solid load cartridge with screw cap, frits, discharging unit, O-ring and end tips as well as bulk silica gel.



Accessories for SepaFlash™ column

Product	Item Number	Description	Product Picture
iLOK™ III 800g Disposable Column Tube	ET-SD0800B-1	The Plastic column tube for 800g empty solid load cartridge	
iLOK™ III 1600g Disposable Column Tube	ET-SD1600B-1	The Plastic column tube for 1600g empty solid load cartridge	
iLOK™ III 3000g Disposable Column Tube	ET-SD3000B-1	The Plastic column tube for 3000g empty solid load cartridge	
iLOK™ III 5000g Disposable Column Tube	ET-SD5000B-1	The Plastic column tube for 5000g empty solid load cartridge	
iLOK™ III 7000g Disposable Column Tube	ET-SD7000B-1	The Plastic column tube for 7000g empty solid load cartridge	
iLOK™ III 800g-7000g Universal Frit	PF-034-SD-0800B-7000B	The top frit for 800g-7000g empty solid load cartridge	
iLOK™ III 800g-7000g Universal Sealing Ring	OS-SD-0800B-7000B-1	The sealing ring for 800g-7000g empty solid load cartridge	
Adapter Kit of SD800-SD7000	BLL-0506-032-2	A pair of adaptors of SD800-SD7000 for 1/8-inch OD tubing	
	BLL-0506-048-2	A pair of adaptors of SD800-SD7000 for 3/16-inch OD tubing	
	BLL-0506-064-2	A pair of adaptors of SD800-SD7000 for 1/4-inch OD tubing	
Frit Insertion Rod of SD800-SD7000	TO-PF-IR-007	A pair of adaptors of SD800-SD7000 for 1/4-inch OD tubing	
Adapters for 10 kg flash column	BLL-NPT635-032	Use for 1/8-inch OD tubing	
	BLL-NPT635-048	Use for 3/16-inch OD tubing	
	BLL-NPT635-064	Use for 1/4-inch OD tubing	
	BLL-NPT635-095	Use for 3/8-inch OD tubing	
	BLL-NPT635-127	Use for 1/2-inch OD tubing	
Silicone O-ring for iLOK™ solid loading column	OS-SD-004	Silicone O-ring for iLOK™ 4-330g solid loading column	
	OS-SD-012		
	OS-SD-025		
	OS-SD-040		

Product	Item Number	Description	Product Picture
Silicone O-ring for iLOK™ solid loading column	OS-SD-060	Silicone O-ring for iLOK™ 4-330g solid loading column	
	OS-SD-080		
	OS-SD-100		
	OS-SD-120		
	OS-SD-220		
	OS-SD-330		
Silicone O-ring for iLOK™ solid loading column	OS-SD-004-F	iLOK™ 4-330g solid loading column with fluorine rubber O-ring	
	OS-SD-012-F		
	OS-SD-025-F		
	OS-SD-040-F		
	OS-SD-060-F		
	OS-SD-080-F		
	OS-SD-100-F		
	OS-SD-120-F		
	OS-SD-220-F		
	OS-SD-330-F		
SD/SL4g-330g filter insertion tool	TO-PF-IR-001	Suitable for SD4/SL4 filter insert tool	
	TO-PF-IR-002	Suitable for SD/SL12, 25, 40 filter insertion tool	
	TO-PF-IR-003	Suitable for SD/SL80,120 filter insert tool	
	TO-PF-IR-004	Suitable for SD/SL220,330 Size insert tool	
iLOK Solid Sample Column Capping Tool	TO-SD-0103	Suitable for SD/SL80-330 universal capping tool (including vise)	
Luer male connector	FPV10138	Standard column 4 g - 330 g Size Luer connector	
Luer connector	FPV10139	Standard column 4 g - 330 g female Luer connector	
Luer connector kit	BLL-0102	Luer connector kit for large columns (800 g, 1600 g and 3 kg)	
Luer connector kit	BLL-0304	Luer connector kit for large columns (800g, 1600 g, 3 kg and 5 kg)	

SepaBean™ machine 2



Technical parameters



Stable Flow Rate



Efficient Separation



High Pressure resistance:
Up to 500psi (34.5bar)



Detection wavelength:
200-400 / 200-800nm



Speed:
300ml / min



Fraction collection:
Tube rack for various size

Using a doubler plunger pump sets a new standard for separation processes. Engineered for precision, it guarantees a minimal pulse, ensuring a consistent and highly repeatable flow rate. With the backpressure rating of 500 psi, it seamlessly complements the unique separation properties of the SepaFlash series, delivering unparalleled separation efficiency and reliability.

Instrument Composition

- **Control Module:** Wireless Control via iPad.
- **Pump module:** Four solvents binary with 3rd solvent as modifier.
- **Smart column holder:** Suitable for 4 - 1.6 kg separation columns, with RFID identification.
- **Sampling Injection module:** Liquid and solid sampling, optional manual injection valve.
- **Detection module:** DAD detector, ELSD optional.
- **Collection module:** Intelligent identification of test tube racks, can be used with ordinary tube racks.
- **Air pump module:** Purge solvent residue.
- **Safety configuration:** Intelligent pressure, leakage alarm, real-time solvent and waste level monitoring.

SepaBean™ machine T



Technical parameters



Intelligent Control



Forward / reverse separation
mode switching



Pressure resistance:
Up to 200psi (13.8bar)



Flow Rate:
200ml / min



Fraction collection:
Tube rack for various size



Detection wavelength:
200-400 / 200-800nm

Our innovation boasts a versatile four-way solvent system with the added flexibility of incorporating a third path for smooth transitions between forward and reversed phase separation modes. Beyond this, our advanced system offers a range of intelligent auxiliary functions, enhancing your workflow efficiency and effectiveness.

Instrument Composition

- **Control Module:** Wireless Control via iPad.
- **Pump module:** Four solvents binary with 3rd solvent as modifier.
- **Smart column holder:** Suitable for 4 - 1.6 kg separation columns, with RFID identification.
- **Sampling Injection module:** Liquid and solid sampling, optional manual injection valve.
- **Detection module:** DAD detector, optional ELSD.
- **Collection module:** Intelligent identification of test tube racks, which can be used with ordinary tube racks.
- **Air pump module:** Purge solvent residue.
- **Safety configuration:** Intelligent pressure, leakage alarm, real-time solvent and waste level monitoring.

SepaBean™ machine U



Technical parameters



Intelligent Control



Cost Effective



4.3-inch large screen



Flow Rate:

100ml / min or 200ml / min



Pressure resistance:

Up to 100psi (6.9bar) or
Up to 200psi (13.8bar)



Detection wavelength:

200-400 / 200-800nm,
fixed wavelength

Cutting-edge chromatography system featuring a spacious 4.3-inch large-screen display, providing real-time visualization of separation parameters and progress. Engineered with a secure and leak-proof column holder, gas purge solvent, and environmentally conscious chromatographic column treatment and recycling, this system ensures not only optimal performance but also remarkable cost-effectiveness.

Instrument Composition

- **Control Module:** Mobile Device Control .
- **Pump module:** Two line solvents, binary gradient.
- **Smart column holder:** Suitable for 4 - 330 g separation columns.
- **Sampling Injection module:** Liquid and solid sampling.
- **Detection module:** DAD detector, optional ELSD.
- **Collection module:** Intelligent identification of test tube racks, which can be used with ordinary tube racks.
- **Air pump module:** Purge solvent residue.
- **Safety configuration:** Intelligent pressure and liquid alarm.

SepaBean™ machine L

Technical parameters



Wireless Operation



4.3-inch large screen



Sample loading capacity
up to 1kg



Flow Rate:
50 - 1000 ml / min



Pressure resistance:
Up to 1450psi (10MPa)



Detection wavelength:
200-400nm / 200-800nm
UV Detector

Cutting-edge machine, designed for effortless scalability and user-friendly operation. Seamless transition from laboratory experiments to pilot-scale production with ease. The anti-static design prioritized safety and reliability. Plus, enhance productivity by loading large sample volumes effortlessly with the optional sample loading pump module.

Instrument Composition

- **Control module:** Wireless operation through mobile device.
- **Gradients:** Four solvents binary with 3rd solvent as modifier.
- **Sample loading module:** Manual, optional Sample Loading Pump module
- **Fraction collector:** Switching valve Sample collection module
- **Column Holder:** Fit for 800 - 10 kg flash columns.
- **Fraction Collector:** Customizable, various sized collection containers.

Mass-sensitive universal detector for preparative liquid Chromatography

Targets analytes lacking chromophoric or electroactive groups, including carbohydrates, phospholipids, amino acids, fatty acids, steroids, saponins, polymers, etc.

- Incorporates low-temperature technology for high sensitivity and minimal noise.
- Optimized design for detecting thermal unstable or semi-volatile compounds.
- SepaFlash™ FP LT-ELSD's droplet selection ensures real low-temperature evaporation, providing superior sensitivity for all compounds.



Detection Principle

Nebulization

- Eluent from the column is mixed with inert gas, creating a homogeneous mist.
- Mist consists of droplets containing the compound of interest.

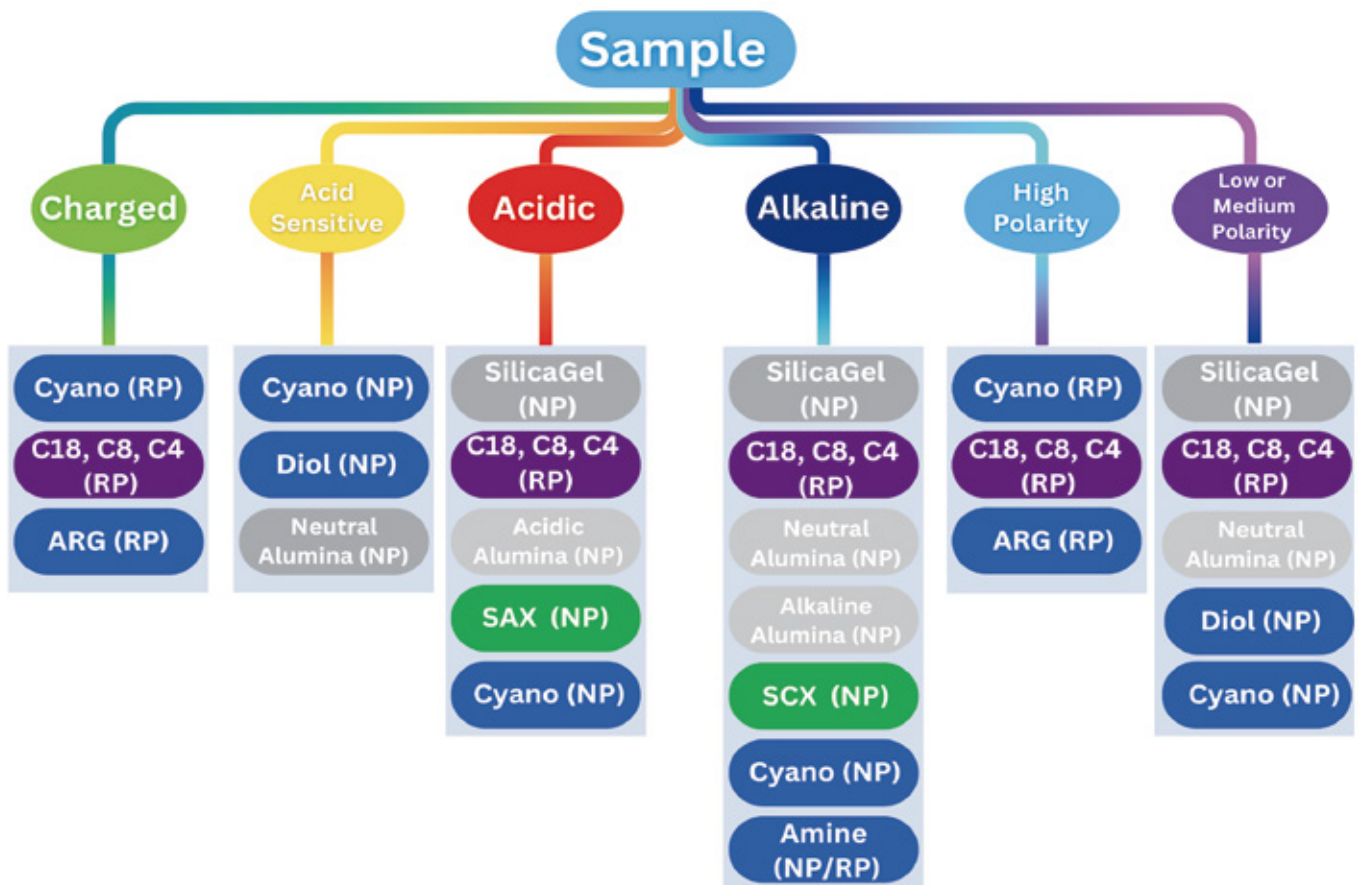
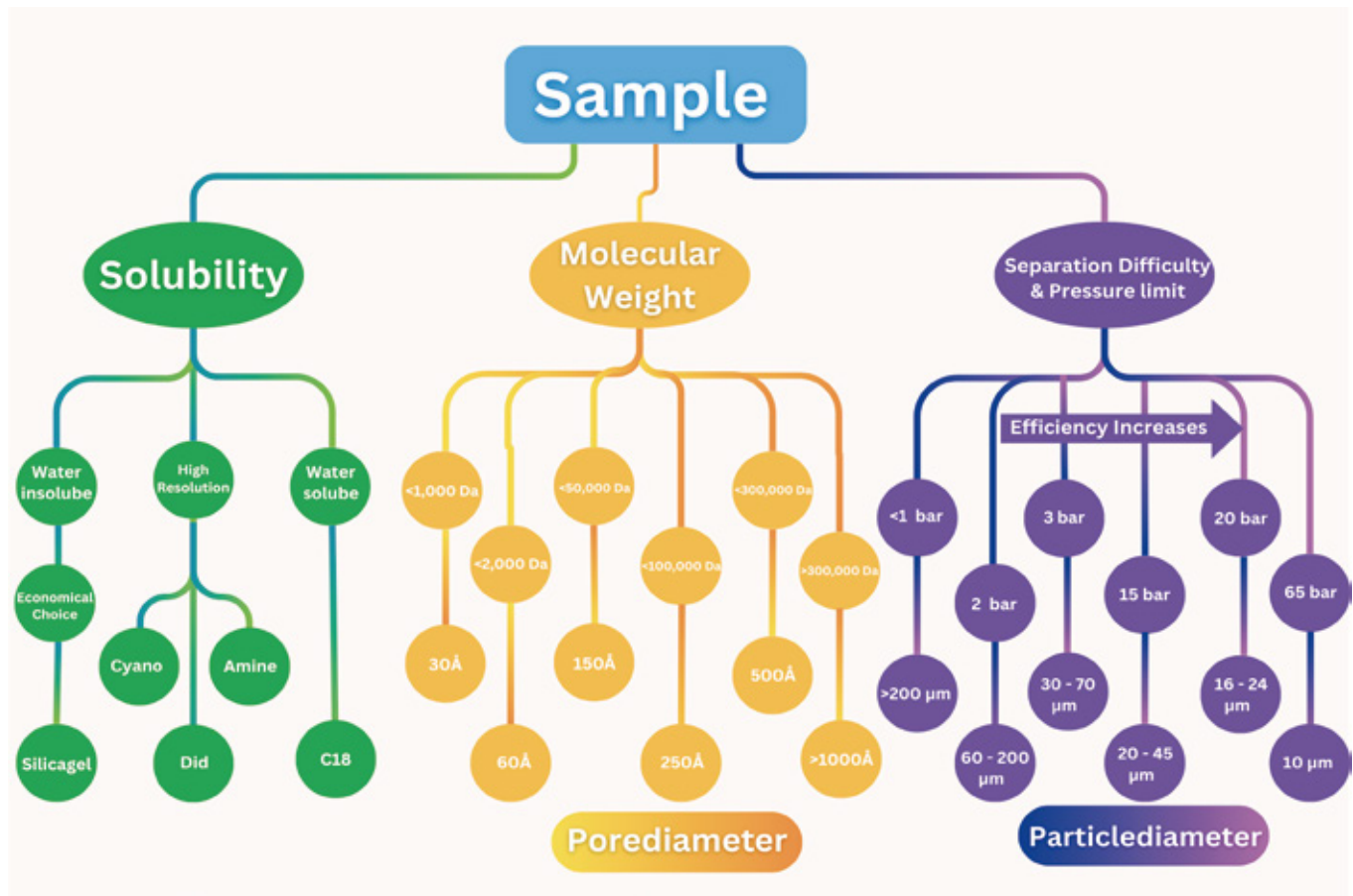
Evaporation

- Nebulized eluent passes through a heated drift tube, evaporating the mobile phase.

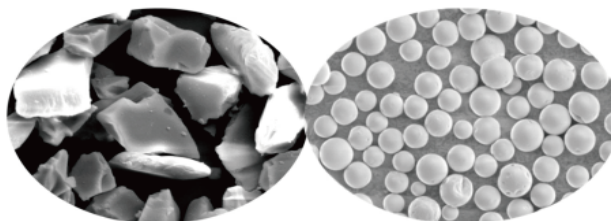
Detection

- Solute molecules are obtained from the mist via heated evaporation tube and transferred to the flow cell.
- Flow cell includes a light source and photodiode to detect scattered light, converting it to an electrical signal.

Stationary Phase Selection Guide



- Silica
- Reversed Phase C18
- Bonded Silica



UltraPure Silica

Media	Particle	Container Size	Item Number
Silica	40–63µm, 60Å Irregular	1 kg	ST5101-IR-1kg
		10 kg	ST5101-IR-10kg
		25 kg	ST5101-IR-25kg
Silica	25–40µm, 60Å Irregular	500 g	ST5102-IR-500g
		1 kg	ST5102-IR-1kg
		25 kg	ST5102-IR-25kg
Silica	40–75µm, 70Å Spherical	1 kg	ST2101-SP-1kg
		10 kg	ST2101-SP-10kg
		25 kg	ST2101-SP-25kg
Silica	20–45µm, 70Å Spherical	1 kg	ST2102-SP-1kg
		10 kg	ST2102-SP-10kg
		25 kg	ST2102-SP-25kg

Media	Particle	Container Size	Item Number
Silica	50µm, 50Å Spherical	1 kg	ST2101-SP(H)-1kg
		10 kg	ST2101-SP(H)-10kg
		25 kg	ST2101-SP(H)-25kg
Silica	25µm, 50Å Spherical	1 kg	ST2102-SP(H)-1kg
		10 kg	ST2102-SP(H)-10kg
		25 kg	ST2102-SP(H)-25kg
Silica	15µm, 50Å Spherical	1 kg	ST2103-SP(H)-1kg
		10 kg	ST2103-SP(H)-10kg
		25 kg	ST2103-SP(H)-25kg

Ultra-pure Reversed Phase C18

Media	Particle	Container Size	Item Number
C18	40–63µm, 60Å Irregular	500 g	ST5201-IR-500g
		1 kg	ST5201-IR-1Kg
		25 kg	ST5201-IR-25Kg
C18	40–63µm, 90Å Irregular	50 g	ST5211-IR-50g
		100 g	ST5211-IR-100g
		500 g	ST5211-IR-500g
		1 kg	ST5211-IR-1kg
C18	20–30µm, 50Å Spherical	50 g	ST5202-SP(H)-50g
		100 g	ST5202-SP(H)-100g
		500 g	ST5202-SP(H)-500g
		1 kg	ST5202-SP(H)-1kg
C18	30–50µm, 120Å Spherical	50 g	ST5232-SP-50g
		100 g	ST5232-SP-100g
		500 g	ST5232-SP-500g
		1 kg	ST5232-SP-1kg
C18	40–60µm, 120Å Spherical	50 g	ST5231-SP-50g
		100 g	ST5231-SP-100g
		500 g	ST5231-SP-500g
		1 kg	ST5231-SP-1kg
C18	40–75µm, 100Å Spherical	50 g	ST5221-SP-50g
		100 g	ST5221-SP-100g
		500 g	ST5221-SP-500g
		1 kg	ST5221-SP-1kg

Media	Particle	Container Size	Item Number
C18	20–45µm, 100Å Spherical	500 g	ST5222-SP-500g
		1 kg	ST5222-SP-1kg
		25 kg	ST5222-SP-25kg
C18 (AQ)	20–45µm, 100 Å Spherical	50 g	ST5222-SP(AQ)-50g
		100 g	ST5222-SP(AQ)-100g
		500 g	ST5222-SP(AQ)-500g
		1 kg	ST5222-SP(AQ)-1kg
C18 (THE)	20–45µm, 100Å Spherical	500 g	ST5222-SP(THE)-500g
		1 kg	ST5222-SP(THE)-1kg
		25 kg	ST5222-SP(THE)-25kg
C18	15µm, 100Å Spherical	50 g	ST5223-SP-50g
		100 g	ST5223-SP-100g
		500 g	ST5223-SP-500g
		1 kg	ST5223-SP-1kg
C18	15µm, 60Å Spherical	50 g	ST5203-SP(H)-50g
		100 g	ST5203-SP(H)-100g
		500 g	ST5203-SP(H)-500g
		1 kg	ST5203-SP(H)-1Kg
C18 (AQ)	15µm, 100Å Spherical	50 g	ST5223-SP(AQ)-50g
		100 g	ST5223-SP(AQ)-100g
		500 g	ST5223-SP(AQ)-500g
		1 kg	ST5223-SP(AQ)-1kg

Media	Particle	Container Size	Item Number	Media	Particle	Container Size	Item Number
Cyano	20-45µm, 100Å Spherical	50 g	ST5322-SP-50g	ARG	20-45µm, 100Å Spherical	50 g	ST5622-SP-50g
		100 g	ST5322-SP-100g			100 g	ST5622-SP-100g
		500 g	ST5322-SP-500g			500 g	ST5622-SP-500g
		1 kg	ST5322-SP-1kg			1 kg	ST5622-SP-1kg
C4	20-45µm, 100Å Spherical	50 g	ST5422-SP-50g	Phenyl	20-45µm, 100Å Spherical	50 g	ST5B22-SP-50g
		100 g	ST5422-SP-100g			100 g	ST5B22-SP-100g
		500 g	ST5422-SP-500g			500 g	ST5B22-SP-500g
		1 kg	ST5422-SP-1kg			1 kg	ST5B22-SP-1kg
C8	20-45µm, 100Å Spherical	50 g	ST5822-SP-50g	Phenyl -Hexyl	20-45µm, 100Å Spherical	50 g	ST5C22-SP-50g
		100 g	ST5822-SP-100g			100 g	ST5C22-SP-100g
		500 g	ST5822-SP-500g			500 g	ST5C22-SP-500g
		1 kg	ST5822-SP-1kg			1 kg	ST5C22-SP-1kg
C8 (AQ)	30µm, 100Å Spherical	500 g	ST5822-SP(AQ)-500g	Amine	40-63µm, 60Å Irregular	50 g	ST5501-IR-50g
		1 kg	ST5822-SP(AQ)-1kg			100 g	ST5501-IR-100g
		25 kg	ST5822-SP(AQ)-25kg			500 g	ST5501-IR-500g
Diol	30µm, 100Å Spherical	50 g	ST5922-SP-50g	Amine	20-30µm, 50Å Spherical	1 kg	ST5501-IR-1kg
		100 g	ST5922-SP-100g			50 g	ST5502-SP(H)-50g
		500 g	ST5922-SP-500g			100 g	ST5502-SP(H)-100g
		1 kg	ST5922-SP-1kg			500 g	ST5502-SP(H)-500g
Diol	40-63µm, 60Å Irregular	500 g	ST5901-IR-500g	SAX	40-63µm, 60Å Irregular	1 kg	ST5502-SP(H)-1kg
		1 kg	ST5901-IR-1kg			50 g	ST5001-IR-50g
		25 kg	ST5901-IR-25kg			100 g	ST5001-IR-100g
Diol	20-30µm, 50Å Spherical	50 g	ST5902-SP(H)-50g	SCX	40-63µm, 60Å Irregular	500 g	ST5001-IR-500g
		100 g	ST5902-SP(H)-100g			1 kg	ST5001-IR-1kg
		500 g	ST5902-SP(H)-500g			50 g	ST5701-IR-50g
		1 kg	ST5902-SP(H)-1kg			100 g	ST5701-IR-100g
						500 g	ST5701-IR-500g
						1 kg	ST5701-IR-1kg



How to Order Santai Science Products

When placing your order please have this information available

1. Company Name.
2. Company Name, billing, and shipping addresses.
3. Purchase order number or credit card information.
4. Item Number and product description.
5. Size, quantity, and unit of measurement.

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You can place an order with our Customer Service Staff in French and English between 8:30 a.m. and 5:30 p.m. Montreal time (GMT-5), Monday through Friday.

Phone: +1 514 505 1378

By Mail

Orders can be mailed to our Montreal headquarters address

**214 Brunswick, Pointe-Claire,
Quebec H9R1A6, Canada**

By Email

Orders can be emailed to the following address:

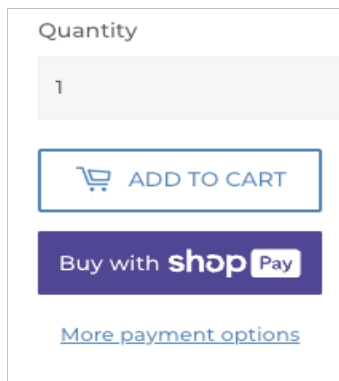
order@santaisci.com

Online Shopping by following this steps

1. Visit our webpage www.santaisci.com.
2. Click on "Online Store"



3. Browse through our product catalog and add to the cart the items and the quantity that you need.



Quantity

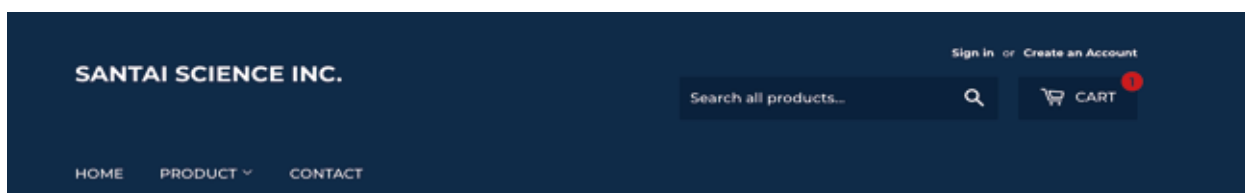
1

 ADD TO CART

Buy with 

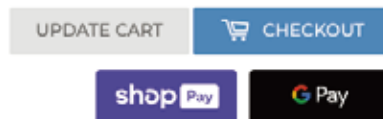
[More payment options](#)

4. When you are done go to the cart icon

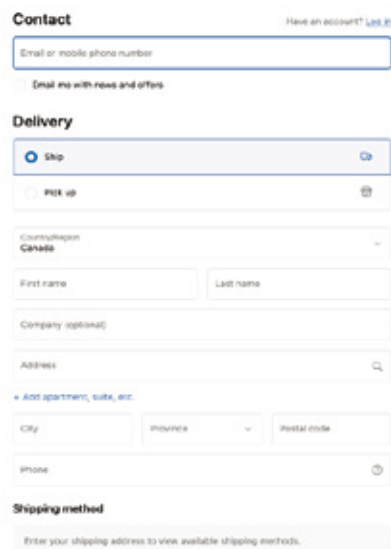


5. Click on “checkout”

Taxes and shipping calculated at checkout



6. Fill out all the fields in the questionnaire with your contact information.



Contact [Have an account? Log In](#)

Email or mobile phone number

☐ Email me with news and offers

Delivery

☒ Skip 

☐ Pick up 

Country/region
Canada

First name Last name

Company (optional)

Address

[+ Add apartment, suite, etc.](#)

City Province Postal code

Phone

Shipping method

Enter your shipping address to view available shipping methods.

7. Fill out all the fields depending on your payment method, and finally click on “Pay now” .

Payment
All transactions are secure and encrypted.

☒ Credit card 

Card number 

Expiration date (MM / YY) Security code 

Name on card

☒ Use shipping address as billing address

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