Biotage® Sfär Columns

From the Pioneers of Flash Purification

Biotage®

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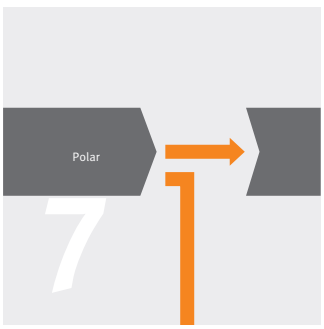


Sfär
[svæːʿrʾ] *n. (swe.)* Sphere, orb.

Sfär Stands for Spherical, Biotage Stands for Quality

Your Chemistry, Better

In 1994, Biotage became the first manufacturer of pre-packed columns for flash purification. Today that legacy continues, as Biotage produces a broad selection of Flash purification columns, giving chemists the freedom to choose the best solution that suits their needs.

Sfär [svæːʳ] is the Swedish word for sphere – chosen because Biotage has made spherical silica standard across our Flash purification columns for the first time. Why? Because Biotage® Sfär spherical silica has a high surface area compared to irregular silica. As a result, Biotage Sfär columns deliver higher loading capacities, benefit from tighter elution bands and offer purer fractions.

Biotage Sfär columns are quality tested to ensure they meet stringent performance criteria including efficiency and peak symmetry. Each CE-marked column is built using inert, food-grade plastics for lower extractables, cleaner fractions, and packed to provide excellent resolution.

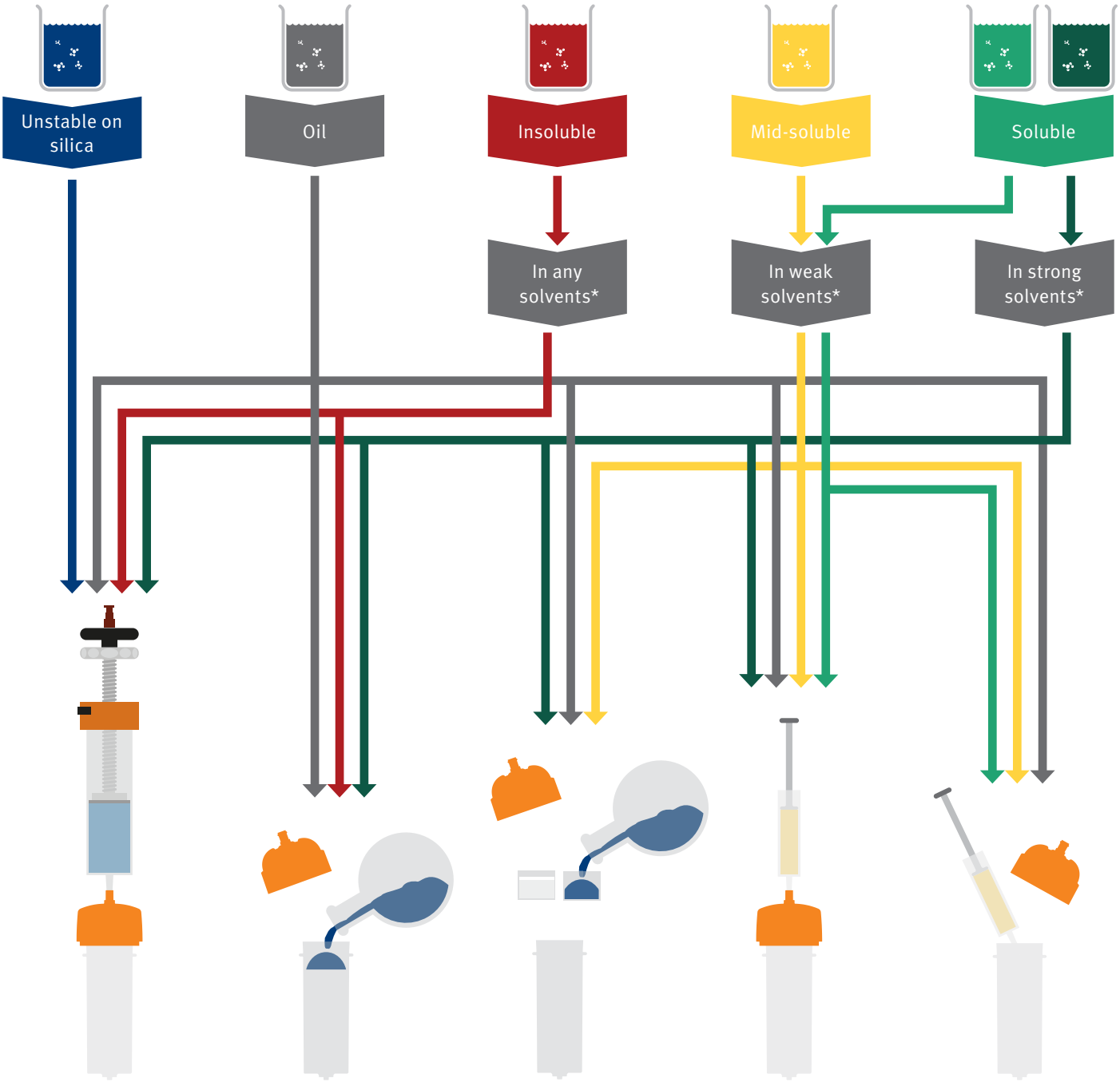
Different sizes, different media, all unique

Available in sizes from 5 g to 400 g with either silica, C18, C4 or NH-functionalized media, Biotage Sfär columns will purify your valuable compounds whether you have milligram or multi-gram samples.

All Sfär columns come with a printed, unique identifier to enable recognition and categorization based on the application. Thanks to the unique QR code on every column, it is extremely quick and easy to load the column data into the instrument when used with Biotage® Selekt.

Your Unique Chemistry

Every one of your samples puts unique demands on purification. Choosing the best column and means of column loading depends on the target compound's properties. Follow the paths below for your sample, taking into account sample and solvent properties, to arrive at a suitable loading technique.



*Strong solvent = EtOAc, MeOH etc.
Weak solvent = hexane, toluene.

Load as Much as You Want, the Way You Want

Biotage® Sfär D

"D" stands for Duo. The unique Sfär Duo design allows you to open your column and load it in one of six different ways, including different dry loading options utilizing a Biotage Samplet® (page 14).

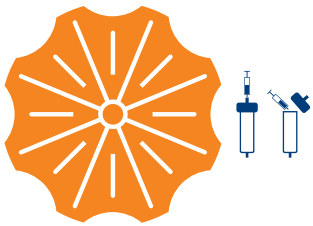
Some of the Sfär columns are also available in a sealed version. They are easily recognizable by looking at the column cap. Please see the drawing on the side:

- The Standard column cap has a rounded shape and cannot be opened
- The Sfär Duo column cap is in the shape of a flower, and can be opened (a cap wrench is available for the sizes 50 g and up, see "Ordering Information" on page 18)

The most flexible columns

With Biotage® Sfär D we are introducing additional flexibility in the way columns can be loaded.

Standard column cap.



Sfär Duo column cap.

For your difficult separations, when you want to utilize dry loading, take advantage of the orange flower shaped cap (right) of Biotage® Sfär Silica D (Duo).

External Loading

External Liquid Loading

Push the liquid sample straight into the top port of the column with a syringe, or use a 3-Way Syringe Injection Valve, PN 413027.

External Dry Loading with DLV

Introduce your sample to a pre-packed Dry Load Vessel, let dry, and connect it to the top of the column

Internal Loading (only available with Sfär Duo columns)

Internal Liquid Loading

Unscrew the top, removing the spacer, and pour the sample on top of the stationary phase in the column.

Internal Dry Loading

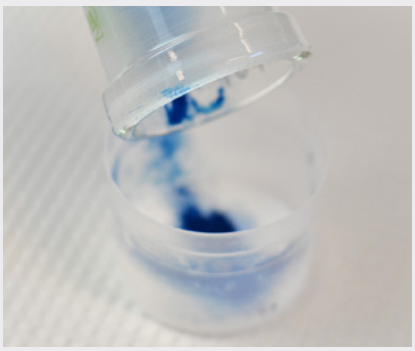
Absorb your sample onto silica or other sorbent, dry, and then introduce the doped silica into the top cavity of the column.

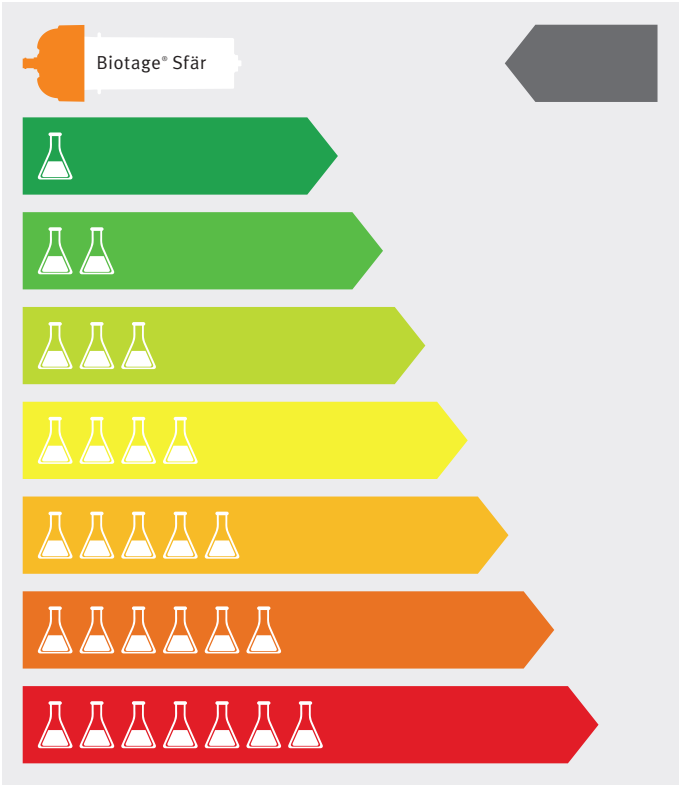
Internal Dry Loading with Samplet®

Introduce your sample to a Samplet®, unique to Biotage, evaporate the solvent, and then load the Samplet in the column cavity.

Internal Dry Loading with Empty Samplet®

Mix your sample with a sorbent, dry, and pour the dry powder into an empty Samplet which is inserted in the column cavity.





Solvent rated. Biotage® Sfär High Capacity columns use the least amount of solvent, reducing the environmental footprint.

The Greenest Columns

Chemistry, by its very nature, involves the use of chemicals that can be harmful, toxic and damaging to the environment, which means that drug discovery currently has a large and expensive environmental footprint. Green solutions will benefit both the chemist and the environment.

Purify more with less

A first step to greener purifications would be to use smaller columns. Doing so would reduce the solvent consumption and make the process faster – making the job greener as well as less costly. The purified fractions would also be more concentrated, so less time is needed to remove the solvent. This all combines to make the entire process greener, less expensive and faster.

Double your loading capacity with Biotage® Sfär HC

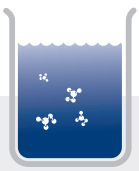
Biotage® Sfär HC stands for “High capacity” as the Biotage proprietary silica of Sfär HC delivers 40% more surface area compared to traditional silicas, no fines, and remarkably low pressure. This means your loading capacity almost doubles. This means you can replace a standard column with a Biotage® Sfär HC half the size – reducing costs, increasing speed, and lowering the environmental footprint of your purification.

The small 20 µm spherical particles minimize band-broadening, while supporting faster flow rates to speed purification and improve productivity. Sfär columns have been designed to tolerate higher pressures, so you never need to worry about the column being able to cope with your purification methods.

When used with Biotage® Selekt, the instrument will suggest the optimal Sfär cartridge for your conditions and help you in optimizing its utilization.

Column Selection Flowchart

Column selection depends on the target compound's properties in the sample. Follow the paths below for your sample, taking into account polarity, pH, molecular weight and lipophilicity to arrive at a suitable column.



Non-polar

Acidic

Simple

Complex

Basic

Polar

Neutral

< 1000 Da

Acidic, basic, ionizable, peptides

> 1000 Da

Lipophilic

Non-lipophilic

Biotage® Sfär Silica
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Biotage® Sfär Silica HC
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Biotage® Sfär KP-Amino
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Biotage® Sfär C18
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Standard.

Duo.

Normal Phase

Biotage® Sfär Silica & Biotage® Sfär Silica D

Biotage has made spherical silica a standard with Sfär columns. This means all columns offer the efficiency and reproducibility of spherical material.

For standard separations that require a reliable normal phase media you can choose Biotage® Sfär Silica 60 µm or Biotage® Sfär Silica D Duo 60 µm with confidence.

The Duo version enables chemists to open the column, so that you can load your sample directly on the top of the stationary phase, or use the Biotage Samplet®.

Quick-specs

Loading Options

Media Polarity

Non-polar — Polar

Particle Size

Load Capacity

Standard.

Duo.

Normal Phase – High Capacity

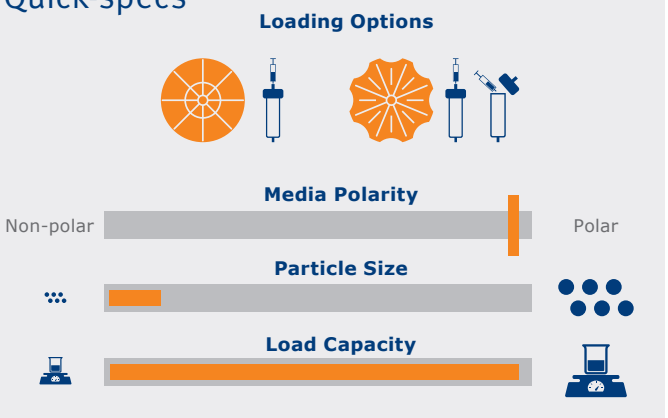
Biotage® Sfär Silica HC & Biotage® Sfär Silica HC D

Biotage Sfär Silica HC High Capacity 20 µm is manufactured using a high-performance, high surface area spherical silica, making it the most efficient flash silica available.

The spherical shape reduces backpressure, while the 20 µm particle diameter combined with the high surface area, provides maximum resolving power and enables sample loads twice (or more) that of other silicas.

Suitable for more complex separations, or when you have high requirements in terms of high resolution, high purity or quantity of the final compound.

Quick-specs



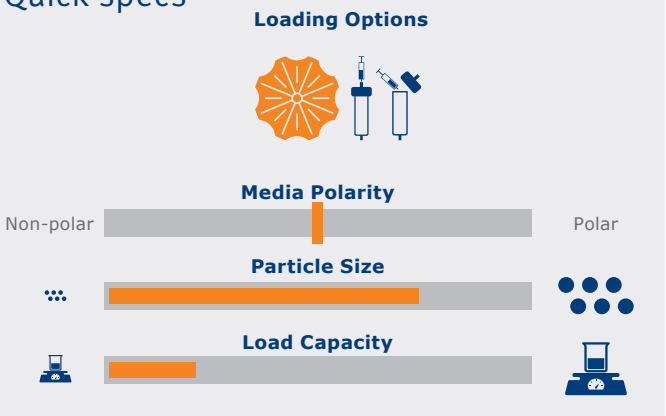
Normal Phase – Amine Functionalized

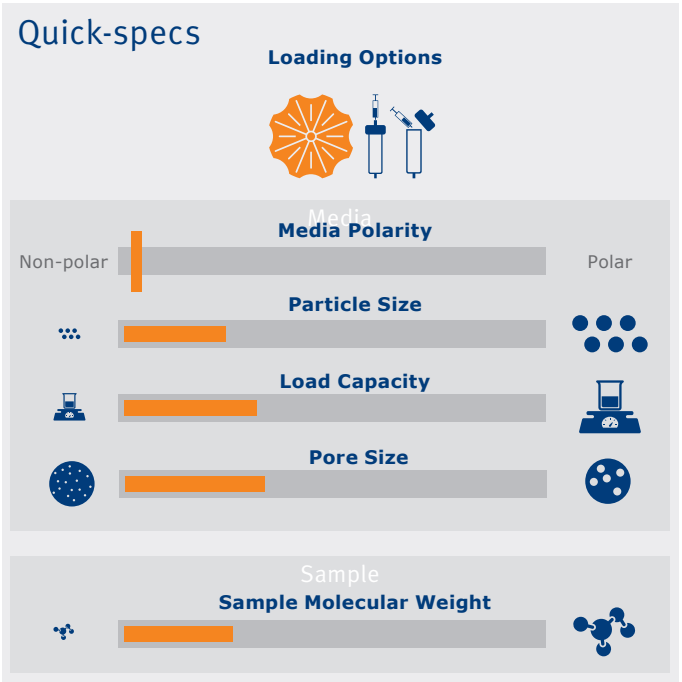
Biotage® Sfär KP-Amino D

Biotage® Sfär KP-Amino D chemistry shields synthetic organic amines from acidic silanols, providing improved selectivity, peak shape, purity and yield. Unlike traditional silica and 1° amine (propylamine) bonded silica, Sfär KP-Amino does not require the use of chlorinated solvents or amine additives.

Biotage Sfär KP-Amino flash columns and matching TLC plates separate 2°, 3°, and heterocyclic amines using non-chlorinated solvents. The TLC plates are made using the same chemistry as Sfär KP-Amino flash columns so that methods developed using Biotage Sfär KP-Amino TLC plates accurately transfer to Biotage Sfär KP-Amino flash columns simplifying flash purification.

Quick-specs





Reversed Phase – C18

Biotage® Sfär C18 Duo 100 Å 30 µm

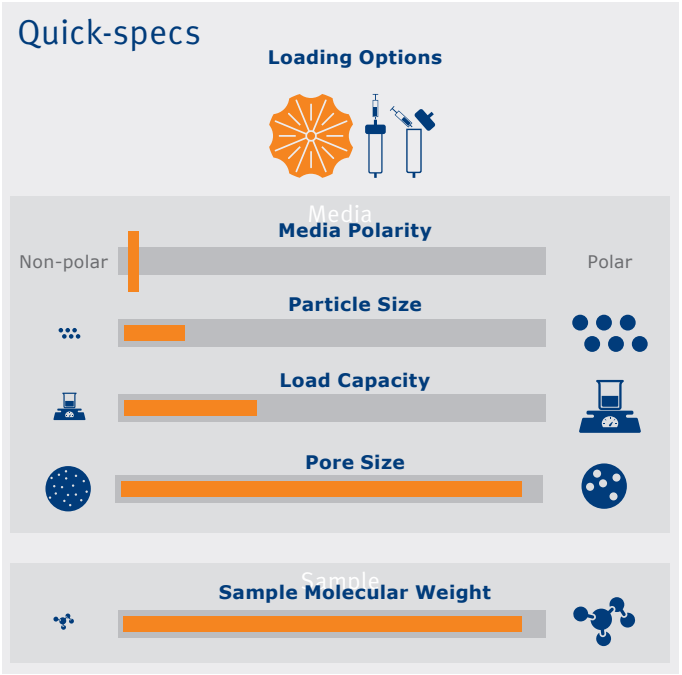
Reversed phase flash chromatography is a very effective purification technique for polar, ionizable and highly lipophilic compounds which cannot easily be separated by normal phase techniques.

With the new Biotage® Sfär C18 columns, it is now possible to routinely load three times more sample onto the flash column compared to other C18 columns of the same size, and still obtain higher resolution during purification. This means that a smaller column will do the job. Using a smaller column with a higher loading capacity can:

- Cut the cost of purification compared to standard columns
- Reduce the usage of solvent, impacting the cost even further
- Shorten the time for purification

Cost and time are reduced while performance is increased, thanks to spherical 30 um well-packed silica particles and the new design of the Sfär columns that makes them even more resistant to high pressure. That brings flash even closer to prep-HPLC. So, do you still need preparative HPLC?

Also in reverse phase, thanks to the Duo capability, you can load your columns as you want, and as much as you want.



Reversed Phase – Peptide

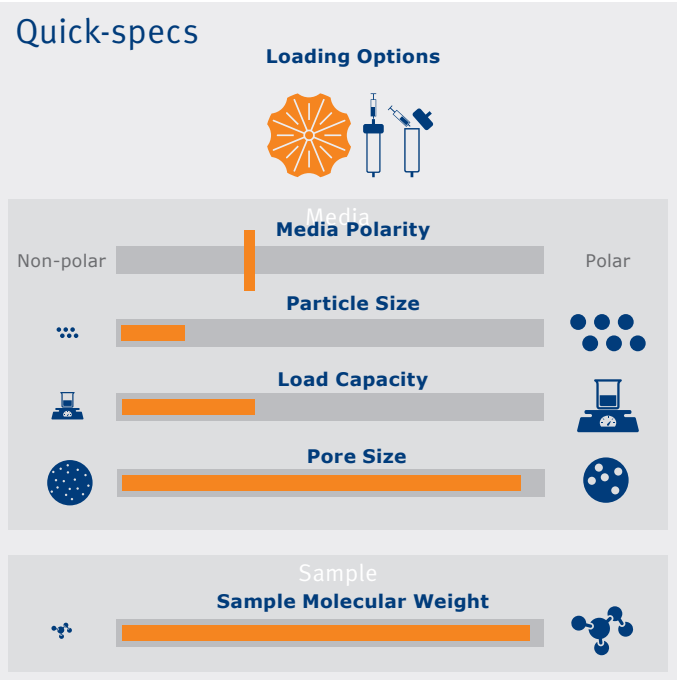
Biotage® Sfär Bio C18 Duo 300 Å 20 µm

Reversed-phase HPLC is normally the method of choice for purification of crude synthetic peptides, however, the purification step is one of the main bottlenecks in the peptide synthesis workflow. High performance flash chromatography is a very efficient technique to dramatically clean-up synthetic peptides.

Biotage® Sfär Bio flash columns were developed with a small particle size (20 µm) and large pore size (300 Å) to provide increased resolution and effective separation of complex peptide mixtures. Depending on the quality of the peptides synthesized, flash chromatography can be used either as the sole method of purification or as a front end clean-up prior to RP-HPLC.

The increased loading capacity of Biotage® Sfär Bio flash columns allows more peptide to be processed in a single injection, compared to preparative RP-HPLC. it also brings a consequent reduction in solvent usage and waste production compared to RP-HPLC (per mg of purified peptide).

Biotage® Sfär Bio offers close to prep-HPLC performance, in a flash format at a fraction of the cost. Additionally, Sfär Bio columns are chemically neutral with high chemical resistance, tested at high and low pH for robustness and reliability.



Reversed Phase – Peptide

Biotage® Sfär Bio C4 D Duo 300 Å 20 µm

Reversed-phase HPLC is normally the method of choice for purification of crude synthetic peptides, however, the purification step is one of the main bottlenecks in the peptide synthesis workflow. High performance flash chromatography is a very efficient technique to dramatically clean-up synthetic peptides.

Biotage® Sfär Bio flash columns were developed with a small particle size (20 µm) and large pore size (300 Å) to provide increased resolution and effective separation of complex peptide mixtures. Depending on the quality of the peptides synthesized, flash chromatography can be used either as the sole method of purification or as a front end clean-up prior to RP-HPLC.

The increased loading capacity of Biotage® Sfär Bio flash columns allows more peptide to be processed in a single injection, compared to preparative RP-HPLC. It also brings a consequent reduction in solvent usage and waste production compared to RP-HPLC (per mg of purified peptide).

C4 is slightly more polar than C18, and therefore the selectivity of C4 is increased for more hydrophobic peptides molecules.

Samplet®

Internal Dry Loading Improves Recovery and Purity

Creating dried, adsorbed samples will improve the separation performance on any cartridge. Our Samplet® are designed for quick and convenient loading of concentrated samples.

After the sample has been applied to the Samplet®, the solvent is allowed to evaporate. The Samplet is then inserted into the Biotage® Sfär Duo columns and you are ready to go.

Dry Load Vessels (DLV)

Improve Purification Results with Higher Sample Loads

One of the most common flash purification challenges is dealing with hard-to-dissolve crude samples. Because excess polar solvents cause poor chromatographic results, other sample load options are needed.

A commonly used solution is dry loading, which involves dissolving the sample in a suitable polar solvent, mixing the solution with an inert, clean, dry adsorbent such as silica or diatomaceous earth, and then drying the slurry. By drying the mixture, the polar solvent is removed and will have no impact on the purification. The dried sample is then loaded into an empty vessel and inserted in front of the purification cartridge. Dry load vessels are available for use with all Biotage columns.

Biotage® Sfär Product Specifications

Part Number	Media Type	Column Type	Model	Weight (g)	Silica Size (µm)
FSRD-0445-0005	Silica	Duo - Samplet® Support	Silica D	5	60
FSRD-0445-0010	Silica	Duo - Samplet® Support	Silica D	10	60
FSRD-0445-0025	Silica	Duo - Samplet® Support	Silica D	25	60
FSRD-0445-0050	Silica	Duo - Samplet® Support	Silica D	50	60
FSRD-0445-0100	Silica	Duo - Samplet® Support	Silica D	100	60
FSRD-0445-0200	Silica	Duo - Samplet® Support	Silica D	200	60
FSRD-0445-0350	Silica	Duo - Samplet® Support	Silica D	350	60
FSRS-0445-0005	Silica	Sealed	Silica	5	60
FSRS-0445-0010	Silica	Sealed	Silica	10	60
FSRS-0445-0025	Silica	Sealed	Silica	25	60
FSRS-0445-0050	Silica	Sealed	Silica	50	60
FSRS-0445-0100	Silica	Sealed	Silica	100	60
FSRS-0445-0200	Silica	Sealed	Silica	200	60
FSRS-0445-0350	Silica	Sealed	Silica	350	60
FSUD-0443-0005	Silica	Duo - Samplet® Support	Silica HC D	5	20
FSUD-0443-0010	Silica	Duo - Samplet® Support	Silica HC D	10	20
FSUD-0443-0025	Silica	Duo - Samplet® Support	Silica HC D	25	20
FSUD-0443-0050	Silica	Duo - Samplet® Support	Silica HC D	50	20
FSUD-0443-0100	Silica	Duo - Samplet® Support	Silica HC D	100	20
FSUD-0443-0200	Silica	Duo - Samplet® Support	Silica HC D	200	20
FSUD-0443-0350	Silica	Duo - Samplet® Support	Silica HC D	350	20
FSUS-0443-0005	Silica	Sealed	Silica HC	5	20
FSUS-0443-0010	Silica	Sealed	Silica HC	10	20
FSUS-0443-0025	Silica	Sealed	Silica HC	25	20
FSUS-0443-0050	Silica	Sealed	Silica HC	50	20
FSUS-0443-0100	Silica	Sealed	Silica HC	100	20
FSUS-0443-0200	Silica	Sealed	Silica HC	200	20
FSUS-0443-0350	Silica	Sealed	Silica HC	350	20
FSUD-0401-0006	Silica C18	Duo - Samplet® Support	C18 D	6	30
FSUD-0401-0012	Silica C18	Duo - Samplet® Support	C18 D	12	30
FSUD-0401-0030	Silica C18	Duo - Samplet® Support	C18 D	30	30
FSUD-0401-0060	Silica C18	Duo - Samplet® Support	C18 D	60	30
FSUD-0401-0120	Silica C18	Duo - Samplet® Support	C18 D	120	30
FSUD-0401-0240	Silica C18	Duo - Samplet® Support	C18 D	240	30
FSUD-0401-0400	Silica C18	Duo - Samplet® Support	C18 D	400	30
FSBD-0411-0010	Silica C18	Duo - Samplet® Support	Bio C18 D	10	20
FSBD-0411-0025	Silica C18	Duo - Samplet® Support	Bio C18 D	25	20
FSBD-0411-0050	Silica C18	Duo - Samplet® Support	Bio C18 D	50	20
FSBD-0411-0100	Silica C18	Duo - Samplet® Support	Bio C18 D	100	20
FSBD-0412-0010	Silica C4	Duo - Samplet® Support	Bio C4 D	10	20
FSBD-0412-0025	Silica C4	Duo - Samplet® Support	Bio C4 D	25	20
FSBD-0412-0050	Silica C4	Duo - Samplet® Support	Bio C4 D	50	20
FSBD-0412-0100	Silica C4	Duo - Samplet® Support	Bio C4 D	100	20
FSAD-0909-0005	Silica KP-NH	Duo - Samplet® Support	KP-Amino D	5	50
FSAD-0909-0011	Silica KP-NH	Duo - Samplet® Support	KP-Amino D	11	50
FSAD-0909-0028	Silica KP-NH	Duo - Samplet® Support	KP-Amino D	28	50
FSAD-0909-0055	Silica KP-NH	Duo - Samplet® Support	KP-Amino D	55	50
FSAD-0909-0110	Silica KP-NH	Duo - Samplet® Support	KP-Amino D	110	50
FSAD-0909-0220	Silica KP-NH	Duo - Samplet® Support	KP-Amino D	220	50
FSAD-0909-0380	Silica KP-NH	Duo - Samplet® Support	KP-Amino D	380	50

Table 6. Biotage® Sfär column specifications.

Pore Width (Å)	Capacity	Flow Rate (mL/min.)	CV (mL)	Pressure (bar)	Pressure (psi)	Label Color	Pack Size
60	50–500 mg	18	9	17	300		20
60	100–1000 mg	40	15	17	300		20
60	200–2000 mg	80	42	17	300		20
60	0.5–5 g	120	80	17	300		10
60	1–10 g	120	150	17	300		10
60	2–20 g	200	310	12	175		4
60	3.5–35 g	200	530	12	175		4
60	50–500 mg	18	9	20	300		20
60	100–1000 mg	40	15	20	300		20
60	200–2000 mg	80	42	20	300		20
60	0.5–5 g	120	80	20	300		10
60	1–10 g	120	150	20	300		10
60	2–20 g	200	310	12	175		4
60	3.5–35 g	200	530	12	175		4
50	100–1000 mg	18	9	17	250		20
50	200–2000 mg	40	15	17	250		20
50	0.5–5 g	80	42	17	250		20
50	1–10 g	120	80	17	250		10
50	2–20 g	120	150	17	250		10
50	3.5–35 g	200	310	12	175		4
50	7.0–70 g	200	530	12	175		4
50	100–1000 mg	18	9	20	250		20
50	200–2000 mg	40	15	20	250		20
50	0.5–5 g	80	42	20	250		20
50	1–10 g	120	80	20	250		10
50	2–20 g	120	150	20	250		10
50	3.5–35 g	200	310	12	175		4
50	7.0–70 g	200	530	12	175		4
100	50–500 mg	6	9	17	250		2
100	100–1000 mg	12	17	17	250		2
100	200–2000 mg	25	45	17	250		2
100	0.5–5 g	50	85	17	250		2
100	1–10 g	50	164	17	250		2
100	2–20 g	75	328	12	175		1
100	3.5–35 g	100	582	12	175		1
300		25	15	17	250		2
300		40	41	17	250		2
300		70	78	17	250		2
300		70	151	17	250		2
300		25	15	17	250		2
300		40	41	17	250		2
300		70	78	17	250		2
300		70	151	17	250		2
60		6	9	17	250		20
60		12	15	17	250		20
60		25	33	17	250		20
60		50	66	17	250		10
60		50	132	17	250		10
60		100	264	12	175		4
60		100	510	12	175		4

Ordering Information

Part Number	Description	Qty
Biotage® Sfär Silica		
FSRS-0445-0005	Biotage® Sfär Silica - 60 µm 5 g	20
FSRS-0445-0010	Biotage® Sfär Silica - 60 µm 10 g	20
FSRS-0445-0025	Biotage® Sfär Silica - 60 µm 25 g	20
FSRS-0445-0050	Biotage® Sfär Silica - 60 µm 50 g	10
FSRS-0445-0100	Biotage® Sfär Silica - 60 µm 100 g	10
FSRS-0445-0200	Biotage® Sfär Silica - 60 µm 200 g	4
FSRS-0445-0350	Biotage® Sfär Silica - 60 µm 350 g	4
Biotage® Sfär Silica D		
FSRD-0445-0005	Biotage® Sfär Silica D - Duo 60 µm 5 g	20
FSRD-0445-0010	Biotage® Sfär Silica D - Duo 60 µm 10 g	20
FSRD-0445-0025	Biotage® Sfär Silica D - Duo 60 µm 25 g	20
FSRD-0445-0050	Biotage® Sfär Silica D - Duo 60 µm 50 g	10
FSRD-0445-0100	Biotage® Sfär Silica D - Duo 60 µm 100 g	10
FSRD-0445-0200	Biotage® Sfär Silica D - Duo 60 µm 200 g	4
FSRD-0445-0350	Biotage® Sfär Silica D - Duo 60 µm 350 g	4
Biotage® Sfär Silica HC		
FSUS-0443-0005	Biotage® Sfär Silica HC - High Capacity 20 µm 5 g	20
FSUS-0443-0010	Biotage® Sfär Silica HC - High Capacity 20 µm 10 g	20
FSUS-0443-0025	Biotage® Sfär Silica HC - High Capacity 20 µm 25 g	20
FSUS-0443-0050	Biotage® Sfär Silica HC - High Capacity 20 µm 50 g	10
FSUS-0443-0100	Biotage® Sfär Silica HC - High Capacity 20 µm 100 g	10
FSUS-0443-0200	Biotage® Sfär Silica HC - High Capacity 20 µm 200 g	4
FSUS-0443-0350	Biotage® Sfär Silica HC - High Capacity 20 µm 350 g	4
Biotage® Sfär Silica HC D		
FSUD-0443-0005	Biotage® Sfär Silica HC D - High Capacity Duo 20 µm 5 g	20
FSUD-0443-0010	Biotage® Sfär Silica HC D - High Capacity Duo 20 µm 10 g	20
FSUD-0443-0025	Biotage® Sfär Silica HC D - High Capacity Duo 20 µm 25 g	20
FSUD-0443-0050	Biotage® Sfär Silica HC D - High Capacity Duo 20 µm 50 g	10
FSUD-0443-0100	Biotage® Sfär Silica HC D - High Capacity Duo 20 µm 100 g	10
FSUD-0443-0200	Biotage® Sfär Silica HC D - High Capacity Duo 20 µm 200 g	4
FSUD-0443-0350	Biotage® Sfär Silica HC D - High Capacity Duo 20 µm 350 g	4
Biotage® Sfär KP-Amino D		
FSAD-0909-0005	Biotage® Sfär KP-Amino D - Duo 50 µm 5 g	20
FSAD-0909-0011	Biotage® Sfär KP-Amino D - Duo 50 µm 11 g	20
FSAD-0909-0028	Biotage® Sfär KP-Amino D - Duo 50 µm 28 g	20
FSAD-0909-0055	Biotage® Sfär KP-Amino D - Duo 50 µm 55 g	10
FSAD-0909-0110	Biotage® Sfär KP-Amino D - Duo 50 µm 110 g	10
FSAD-0909-0220	Biotage® Sfär KP-Amino D - Duo 50 µm 220 g	4
FSAD-0909-0380	Biotage® Sfär KP-Amino D - Duo 50 µm 380 g	4
Biotage® Sfär C18 D		
FSUD-0401-0006	Biotage® Sfär C18 D - Duo 100 Å 30 µm 6 g, 2/cs	2
FSUD-0401-0012	Biotage® Sfär C18 D - Duo 100 Å 30 µm 12 g, 2/cs	2
FSUD-0401-0030	Biotage® Sfär C18 D - Duo 100 Å 30 µm 30 g, 2/cs	2
FSUD-0401-0060	Biotage® Sfär C18 D - Duo 100 Å 30 µm 60 g, 2/cs	2
FSUD-0401-0120	Biotage® Sfär C18 D - Duo 100 Å 30 µm 120 g, 2/cs	2
FSUD-0401-0240	Biotage® Sfär C18 D - Duo 100 Å 30 µm 240 g, 1/cs	1
FSUD-0401-0400	Biotage® Sfär C18 D - Duo 100 Å 30 µm 400 g, 1/cs	1

Part Number	Description	Qty
Biotage® Sfär Bio C18 D		
FSBD-0411-0010	Biotage® Sfär Bio C18 D - Duo 300 Å 20 µm 10 g	2
FSBD-0411-0025	Biotage® Sfär Bio C18 D - Duo 300 Å 20 µm 25 g	2
FSBD-0411-0050	Biotage® Sfär Bio C18 D - Duo 300 Å 20 µm 50 g	2
FSBD-0411-0100	Biotage® Sfär Bio C18 D - Duo 300 Å 20 µm 100 g	2
Biotage® Sfär Bio C4 D		
FSBD-0412-0010	Biotage® Sfär Bio C4 D - Duo 300 Å 20 µm 10 g	2
FSBD-0412-0025	Biotage® Sfär Bio C4 D - Duo 300 Å 20 µm 25 g	2
FSBD-0412-0050	Biotage® Sfär Bio C4 D - Duo 300 Å 20 µm 50 g	2
FSBD-0412-0100	Biotage® Sfär Bio C4 D - Duo 300 Å 20 µm 100 g	2
Samplet®		
SAS-0445-0010	Biotage® Sfär Silica Samplet® for 5/10 g Column	20
SAS-0445-0025	Biotage® Sfär Silica Samplet® for 25 g Column	20
SAS-0445-0100	Biotage® Sfär Silica Samplet® for 50/100 g Column	20
SAS-0445-0350	Biotage® Sfär Silica Samplet® for 200/350 g Column	6
SAS-0825-0010	Biotage® Sfär HMN-R Samplet® for 5/10g Column	20
SAS-0825-0025	Biotage® Sfär HMN-R Samplet® for 25g Column	20
SAS-0825-0100	Biotage® Sfär HMN-R Samplet® for 50/100g Column	20
SAS-0825-0350	Biotage® Sfär HMN-R Samplet® for 200/350g Column	6
SAS-0401-0010	Biotage® Sfär C18 Samplet® for 5/10 g Column	20
SAS-0401-0025	Biotage® Sfär C18 Samplet® for 25 g Column	20
SAS-0401-0100	Biotage® Sfär C18 Samplet® for 50/100 g Column	20
SAS-0401-0350	Biotage® Sfär C18 Samplet® for 200/350 g Column	6
SAS-0909-0010	Biotage® Sfär KP-Amino Samplet® for 5/10 g Column	20
SAS-0909-0025	Biotage® Sfär KP-Amino Samplet® for 25 g Column	20
SAS-0909-0100	Biotage® Sfär KP-Amino Samplet® for 50/100 g Column	20
SAS-0909-0350	Biotage® Sfär KP-Amino Samplet® for 200/350 g Column	6
SFES-0010	Biotage® Sfär Empty Samplet® for 5/10 g Column, 20/cs	
SFES-0025	Biotage® Sfär Empty Samplet® for 25 g Column, 20/cs	
SFES-0100	Biotage® Sfär Empty Samplet® for 50/100 g Column, 20/cs	
SFES-0340	Biotage® Sfär Empty Samplet® for 200/350 g Column, 6/cs	
Dry Load Vessels (DLV)		
DLV-010	Biotage® Sfär DLV Plunger for 10 g Column	1
DLV-025	Biotage® Sfär DLV Plunger for 25 g Column	1
DLV-050	Biotage® Sfär DLV Plunger for 50/100 g Column	1
DLV-0445-0010	Biotage® Sfär Silica DLV Column with 5 g Silica	10
DLV-0445-0025	Biotage® Sfär Silica DLV Column with 10 g Silica	10
DLV-0445-0050	Biotage® Sfär Silica DLV Column with 25 g Silica	5
DLV-0825-0010	Biotage® Sfär HMN-R DLV Column with 5 g HMN-R	10
DLV-0825-0025	Biotage® Sfär HMN-R DLV Column with 10 g HMN-R	10
DLV-0825-0050	Biotage® Sfär HMN-R DLV Column with 25 g HMN-R	5
DLV-0000-0010	Biotage® Sfär DLV Empty 10g Column w. frit	20
DLV-0000-0025	Biotage® Sfär DLV Empty 25 g Column w. frit	20
DLV-0000-0050	Biotage® Sfär DLV Empty 50 g Column w. frit	20
DLV-0000-0100	Biotage® Sfär DLV Empty 100 g Column w. frit	10
Accessories		
413027	3-way large bore stainless steel injection valve for Isolera systems	
415301SP	Sfär Cap Wrench 200/350 g	
415347SP	Sfär Cap Wrench 50/100 g	

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