

Purification

Silica-based Flash Cartridges, Bulk Materials & LC Columns



Available in different selectivities

Dedicated 300 Å wide pore materials

Particle size from 5 µm to 50 µm

Flash cartridges from 4g to 3kg

LC Columns from 4.6 mm to 50.0 mm ID

Compatible with all instruments on the market

Features

BGB Flash Cartridges are ultra-pure silica-based flash cartridges with tight particle size distribution and high surface area. Available in 50 µm, 30 µm and 15 µm particle size for difficult separation. Pressure-rated up to 27.5 bar (400 psi) for high flow rate and fast purification. Reduction of purification time by 40-60 %. More concentrated fractions for easy evaporation and less solvent consumption.

- 100 % guaranteed leak-free.
- Body in pharmaceutical-grade polypropylene.
- Closed-top spin-welded technology for standard hardware sizes. Pressure up to 27.5bar (400 psi).
- Possibility of working at high flow rates for fast purifications.
- Also available in 800 g, 1.6kg and 3 kg formats.
- Luer and/or luer-lock connection for standard hardware types.
- Packed with ultra-pure silica-based material.
- Available in Silica (Si), C18, C8, C4, Cyano (CN), Diol (OH), Amino (NH₂) and HILIC-D
- Dedicated 300 Å wide pore spherical materials in C18, C8 and C4 for peptides and proteins purification.
- Excellent lot-to-lot reproducibility.



Compatibility

BGB Flash Cartridges are compatible with all instruments on the market: Agela, Analogix, Armen Instrument, Biotage, Büchi, ECOM, GEÄKTA, Gilson, Grace, Interchim Puriflash, Teledyne Isco, Yamazen, Santai SepaBean, etc.

Different adapters are available. Please refer to www.bgb-shop.com/luer-adapters.

Pressure limit

BGB Flash Cartridges use a spin-welded technology that makes it possible to use the column up to 27.5 bar (400 psi) depending on column size. Please refer to the maximum pressure specified on each column and never exceed this value (for details check tables on page 4 and 5).

Easy-Multi-Luer Outlet

BGB Flash Cartridges in hardware W004 to W330 have a female luer-lock inlet and an Easy-Multi-Luer outlet (figure 2). To get a male luer tip, just remove the orange plug by pulling it down (figure 1). To have a luer-lock connection, simply unscrew the luer fitting by using the orange plug as a tool (figure 3).



Figure 1



Figure 2



Figure 3

Basic Information

Report Sheet

All boxes of BGB Flash Cartridges contain a report sheet. Every lot of filling material is tested to ensure good lot-to-lot reproducibility and the highest quality standard.

Label

Each BGB Flash Cartridge comes with a label including a full description of the phase with lot number and indicating the best parameters for column use as flow rate, maximum pressure and sample loading (figure 4).

Storage before use

Before use, store the cartridges in a dry place, away from light and dust, and at room temperature. The orange plugs must not be removed before the first use.

Conditioning

This stage is crucial to achieve the maximum performance of your column. It activates the silica and removes the air from the cartridge. For optimum purification, this step must be performed prior to the sample load. Rinse the column with 3 to 5 column volumes depending on the phase and the column size. Generally, the solvent (or mixture of solvents) for this step is the one used at the beginning of the purification.

BE CAREFUL, and note that the use of a strong eluent for the conditioning will result in poor separation because of the high affinity of the solvent for the compounds to be purified. Depending of the solvent (or mixture of solvents) used, a normal heating phenomena can appear during this stage. To minimize this effect, and avoid a too much temperature increase, we strongly recommend to be at the lowest part of the flow rate range mentioned on the column. Drying the cartridge after the conditioning step will also result in a loss of column performance.

Storage after use

Normal phase silica and alumina cartridges are single use columns and should not be stored or re-used. For the bonded phases C18, C8, C4, Cyano (CN), Diol (OH), Amino (NH₂) and HILIC please refer to the table below. Please note that the orange plugs at the inlet and at the outlet of the cartridge must always be in place to avoid solvent evaporation.

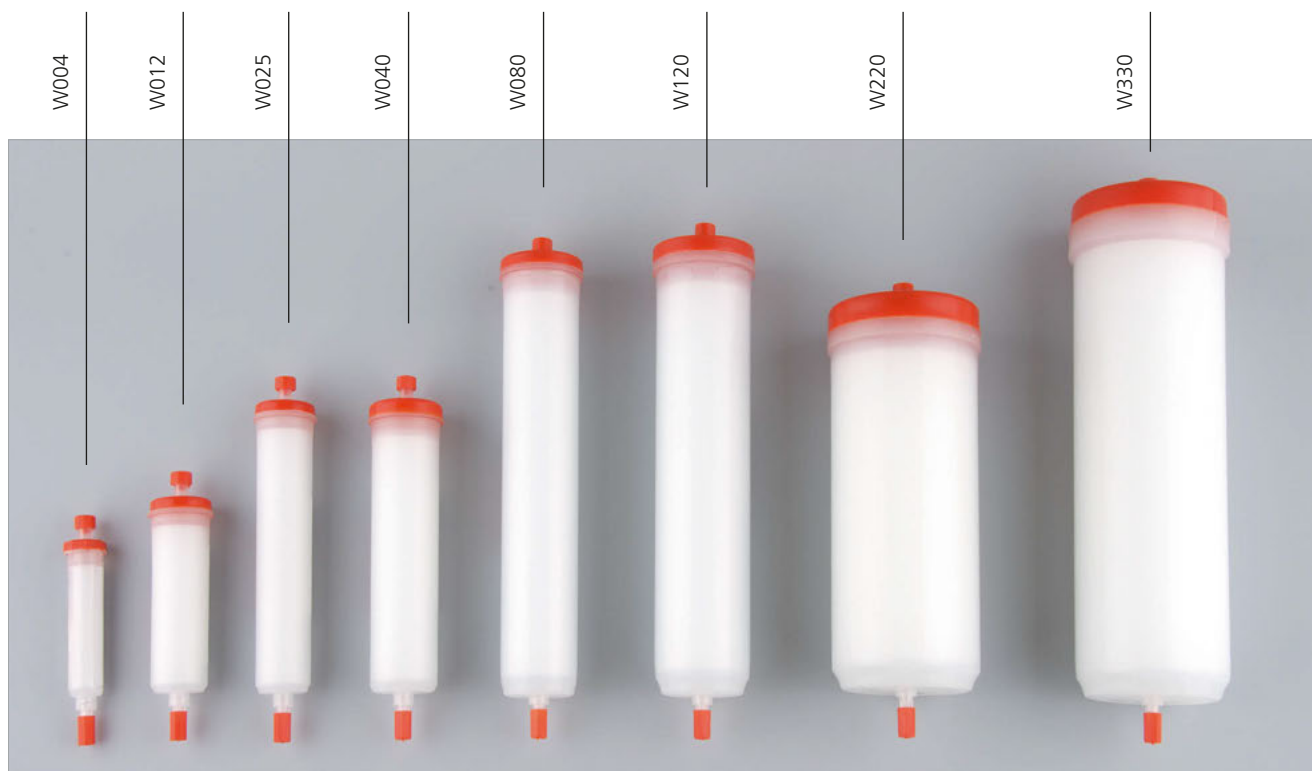


Figure 4

Stationary Phase	Activation			Cleaning	Storage
Scorpius C18e-HP Taurus C18T Taurus C8T Taurus C4T	Rinse 3 to 5 column volumes with a mixture of Water/ACN (70/30) or Water/MeOH (80/20). A minimum of 3% organic is necessary to keep the activation.			Rinse 3 to 5 column volumes with the strongest solvent (100%) to remove impurities.	Flush the column with miscible solvents to reach at least 50% ACN (or MeOH) and 50% water or 100% iPrOH
Aquarius C18AQ	Rinse the column with Water/MeOH (50/50). Depending of the mobile phase, rinse for 3 to 5 column volumes with 100% water.			Rinse 3 to 5 column volumes with the strongest solvent (100%) to remove impurities.	Flush the column with miscible solvents to reach at least 50% ACN (or MeOH) and 50% water or 100% iPrOH
Scorpius Cyano Scorpius Diol Scorpius Amino	Normal phase Rinse 3 to 5 column volumes with 100% heptane.	Reversed phase Rinse 3 to 5 column volumes with a mixture of Water/ACN (70/30) or Water/MeOH (80/20). A minimum of 3% of organic is necessary to keep the activation.	HILIC Rinse 3 to 5 column volumes with a mixture of ACN/Water (70/30).	Rinse 3 to 5 column volumes with the strongest solvent (100%) to remove impurities.	Flush the column with 6 to 8 column volumes with miscible solvents to reach at least 50% ACN (or MeOH) and 50% water or 100% iPrOH
Aquarius HILIC-D Aquarius HILIC-ARG	Rinse 3 to 5 column volumes with a mixture of ACN/Water (70/30).			Rinse 3 to 5 column volumes with the strongest solvent (100%) to remove impurities.	Flush with 6 to 8 column volumes with miscible solvents to reach 100% ACN.

Cartridge Hardware

Cartridge Hardware Standard Sizes (Spin-Welded Technology)



Hardware Parameters

Hardware Type	Inner Diameter	Bed Length	Column Volume	Max. Pressure	Frits*	50 µm Particle Size	30 µm Particle Size
W004	12.4 mm	56 mm	5.1 ml	27.5 bar (400 psi)	Top Frit	16–20 µm	16–20 µm
					Bottom Frit	16–20 µm	5–10 µm
W012	21.4 mm	73 mm	19.7 ml	27.5 bar (400 psi)	Top Frit	16–20 µm	16–20 µm
					Bottom Frit	16–20 µm	5–10 µm
W025	21.4 mm	123.5 mm	33.3 ml	27.5 bar (400 psi)	Top Frit	16–20 µm	16–20 µm
					Bottom Frit	16–20 µm	5–10 µm
W040	26.7 mm	117.6 mm	49.4 ml	27.5 bar (400 psi)	Top Frit	16–20 µm	16–20 µm
					Bottom Frit	16–20 µm	5–10 µm
W080	31.2 mm	185 mm	106 ml	24.0 bar (350 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm
W120	38.6 mm	189 mm	165.8 ml	20.5 bar (300 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm
W220	61.4 mm	139.5 mm	309.6 ml	20.5 bar (300 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm
W330	61.4 mm	199.2 mm	442.1 ml	17.0 bar (250 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm

* All frits are made of polyethylene (PE).

Cartridge Hardware Large-Scale Purification



Hardware Parameters

Hardware Type	Inner Diameter	Bed Length	Column Volume	Max. Pressure	Frits*	50 µm Particle Size	30 µm Particle Size
S0800	78.2 mm	313.3 mm	1128 ml	6.9 bar (100 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm
S1600	103.8 mm	353.7 mm	2244 ml	6.9 bar (100 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm
S3000	127.5 mm	418.0 mm	4000 ml	6.9 bar (100 psi)	Top Frit	20–25 µm	16–20 µm
					Bottom Frit	20–25 µm	5–10 µm

* All frits are made of polyethylene (PE).

Adapters for Large-Scale Cartridges

Adapters for S0800, S1600 and S3000 Flash Column Hardware



Stainless-Steel adapter for inlet port



PEEK adapter for outlet port

These adapters (stainless-steel luer-lock inlet and PEEK luer outlet) have to be used with BGB column hardware S800, S1600 and S3000 (please see page 5). They can be connected to any kind of luer connection.

Luer-lock inlet: The stainless-steel inlet adapter is designed with a thread on half of the length and a smooth part on the other half. The thread is supposed to fit into the plastic when you screw in (figure 6). You have to screw it until the smooth part is engaged a few millimeters deep to insure a truly leak-free connection (figure 7). This can be installed by hand and needs to be screwed in manually.

Luer outlet: The PEEK outlet adapter has to be firmly inserted into the column outlet to insure a truly leak-free connection (figure 9).

How to connect your large-scale cartridge to luer connections.



Figure 5



Figure 6



Figure 7



Figure 8



Figure 9



Figure 10

Ordering Information



Part No.	Description	Qty.
BSLK	BGB luer adapter kit (inlet & outlet) for S800, S1600 and S3000 cartridge hardware	ea.

Analytical & Preparative HPLC columns

BGB Analytical & Preparative HPLC columns have been designed to offer you the easiest way to develop your reversed phase methods and to scale-up your purifications with strictly the same material in term of stationary phase, particle size and pore size. All bonded phases are available in classical stainless steel analytical HPLC columns (4.6 x 150 mm and 4.6 x 250 mm), preparative HPLC columns (I.D. from 21.2 to 50 mm) and plastic flash cartridges (4g to 3kg of phase) to offer you a large choice of possibilities in term of development and scale-up.

Because of the use of standard 10–32 fittings, BGB HPLC columns are compatible with all HPLC systems on the market.

Features include

- High quality SS analytical columns with dimensions of 4.6 x 150 mm and/or 4.6 x 250 mm.
- Preparative HPLC columns with I.D. from 21.2 mm to 50.0 mm.
- Strictly similar bonded phases as those used for our flash cartridges for easy scale-up.
- Available in Scorpius C18, Aquarius C18AQ, Taurus C18T, Taurus C8T and Taurus C4T.
- Dedicated Taurus 300 Å wide pore materials for peptides and proteins purification.
- Particle size of 5 µm, 10 µm, 15 µm and 30 µm.
- Compatible with all HPLC systems on the market.



Column parameters

Hardware	Thread	Inner Diameter	Length	Max. Pressure	Frits
Analytical	10–32	4.6 mm	150 mm	480 bar (7'000 psi)	2 µm
			250 mm		
Semi preparative	10–32	21.2 mm	150 mm	400 bar (6'000 psi)	2 µm
			250 mm		
Preparative	10–32	30.0 mm	150 mm	400 bar (6'000 psi)	2 µm
		50.0 mm	250 mm		

Column certificate

All BGB HPLC columns are individually tested to ensure a high quality and reproducibility from column to column and lot to lot. Each column is delivered with its own analysis report and wear a sticker indicating part number, column type, dimensions, serial number and flow direction.



BTW1ACO-1520
 Taurus CAT 300Å, 30µm, 21.2 x 150mm

CERTIFICATE OF ANALYSIS
 Serial Number: 4545 Batch Number: mmmmm

Chromatographic Conditions

Detection : 254 nm Temperature °C : 28 Pressure (PSI) : 2948 Flow Rate ml/min : 04	Mobile Phase : 30/70 Water/Acetonitrile Injection Volume : 5.0 µl Acetone : 12 µl/ml Acenaphthene : 1 mg/ml
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Shipping/Storage Solvent : 30/70 Water/Acetonitrile

Test Results for Acenaphthene

Peak Name	RT	K Prime	USP Resolution	USP Plate Count	USP Tailing
1 Acenaphthene	14.410	27.82	45.09	24091	1.02

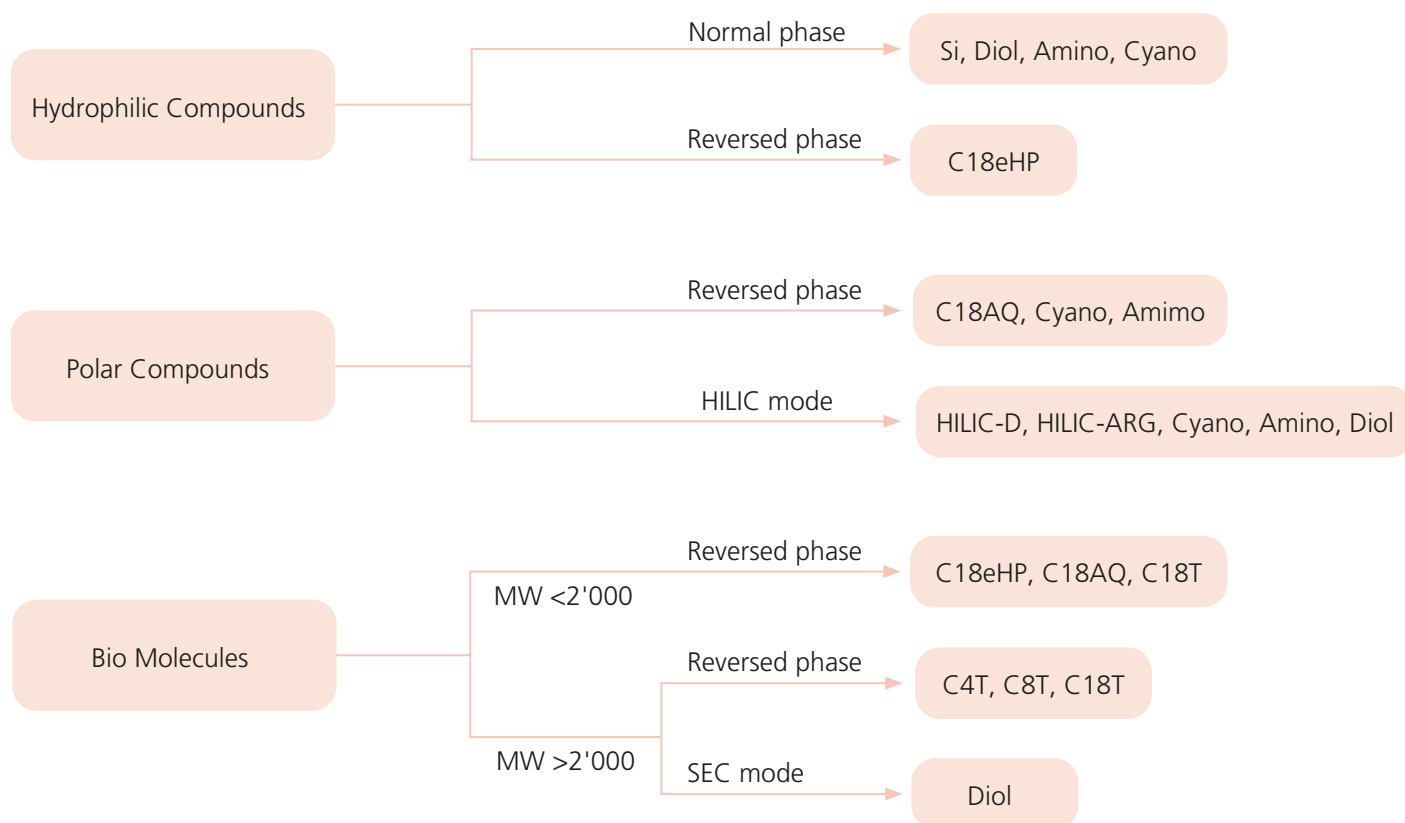
Switzerland: BGB Analytik AG - Rohmstrasse 4 - 4801 Spiez - Phone +41 81 991 90 45 - Fax +41 81 991 00 20 - sales@bgb-analytik.com
 BGB Analytik SA - Route de Pully 20 - 1219 Châtenay 18 - Phone +41 22 786 46 43 - Fax +41 22 786 46 40 - sales.fr@bgb-analytik.com
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 France: BGB Analytik France S.A.S. - 81 Rue de l'Inde - 01180 St. Jean de Guinée - Phone +33 470 488287 - Fax +33 470 522378 - sales.fr@bgb-analytik.com
 Germany: BGB Analytik Vertrieb GmbH - Mühlenstraße 1 - 78036 Löffingen - Phone +49 7801 5864270 - Fax +49 7801 5864289 - sales.de@bgb-analytik.com
 Turkey: BGB Analytik Laboratuvar Malzemeleri Ticaret A.Ş. - Starport Residence - Yedigöller Mah. - Osmangazi İl. - Bursa - Turkey - Phone +90 262 218 00 000 - sales.tr@bgb-analytik.com
 14110 Karlsruhe, Germany - Phone +49 2189922848 - sales.de@bgb-analytik.com
 USA: BGB Analytik USA LLC - 1407 F. Richmond Hwy - Alexandria, VA 22304 - Phone 1-703-780-1800 - Fax 1-703-991-0131 - sales.usa@bgb-analytik.com

Bulk material

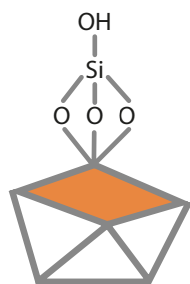
Additionally to our HPLC columns and our flash cartridges, BGB Analytik proposes also the possibility to order the spherical bulk materials bonded phases for Scorpius C18, Aquarius C18AQ, Taurus C18T, Taurus C8T and Taurus C4T. In boxes of 100 g or 1 kg, all these phases are available in 5 µm, 10 µm, 15 µm or 30 µm particle size. Combined with our empty flash cartridge portfolio, it offers you the possibility to pack your own column or to have the right phase to make your dry load. It allows you also the possibility to pack your own preparative columns with all self-packing instruments available on the market.



BGB Selection Guide



BGB Scorpius Silica



Phase:	Irregular Ultra-Pure Silica	
Particle Size:	30 μm	50 μm
Pore Size:	60 Å	60 Å
Surface Area:	500 m ² /g	500 m ² /g
Endcapped:	n.a.	n.a.
Carbon Load:	n.a.	n.a.
pH Range:	2–8	2–8

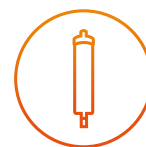


BGB Scorpius Silica (Si) Flash Cartridges

Part No.	Description	Qty.
BSS2AF-W004	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 μm (25–40 μm), 4 g	pk.20
BSS2AF-W012	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 μm (25–40 μm), 12 g	pk.18
BSS2AF-W025	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 μm (25–40 μm), 25 g	pk.12
BSS2AF-W040	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 μm (25–40 μm), 40 g	pk.12
BSS2AF-W080	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 μm (25–40 μm), 80 g	pk.10
BSS2AF-W120	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 μm (25–40 μm), 120 g	pk.10
BSS2AF-W220	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 μm (25–40 μm), 220 g	pk.6
BSS2AF-W330	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 μm (25–40 μm), 330 g	pk.5
BSS2AF-S0800	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 μm (25–40 μm), 800 g	ea.
BSS2AF-S1600	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 μm (25–40 μm), 1.6 kg	ea.
BSS2AF-S3000	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 30 μm (25–40 μm), 3 kg	ea.



Part No.	Description	Qty.
BSS2CF-W004	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 μm (40–63 μm), 4 g	pk.20
BSS2CF-W012	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 μm (40–63 μm), 12 g	pk.18
BSS2CF-W025	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 μm (40–63 μm), 25 g	pk.12
BSS2CF-W040	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 μm (40–63 μm), 40 g	pk.12
BSS2CF-W080	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 μm (40–63 μm), 80 g	pk.10
BSS2CF-W120	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 μm (40–63 μm), 120 g	pk.10
BSS2CF-W220	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 μm (40–63 μm), 220 g	pk.6
BSS2CF-W330	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 μm (40–63 μm), 330 g	pk.5
BSS2CF-S0800	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 μm (40–63 μm), 800 g	ea.
BSS2CF-S1600	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 μm (40–63 μm), 1.6 kg	ea.
BSS2CF-S3000	BGB Scorpius Flash Cartridge, Silica 60 Å, Irregular 50 μm (40–63 μm), 3 kg	ea.

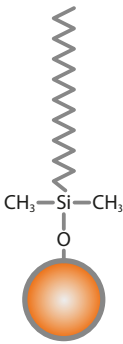


ATTENTION: It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.



Empty Flash column hardware
see page 24–26

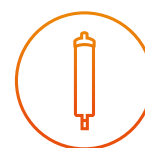
BGB Scorpius C18e-HP

	Phase:	Spherical Ultra-Pure C18 monomeric bonded				
	Particle Size:	5 µm	10 µm	15 µm	30 µm	50 µm
	Pore Size:	100 Å	100 Å	100 Å	100 Å	120 Å
	Surface Area:	320 m ² /g	320 m ² /g	320 m ² /g	320 m ² /g	300 m ² /g
	Endcapped:	yes	yes	yes	yes	yes
	Carbon Load:	17 %	17 %	17 %	17 %	17 %
	pH Range:	2–8	2–8	2–8	2–8	2–8



BGB Scorpius C18e-HP Flash Cartridges

Part No.	Description	Qty.
BSE1AF-W004	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 5.4 g	pk.2
BSE1AF-W012	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 20 g	ea.
BSE1AF-W025	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 33 g	ea.
BSE1AF-W040	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 48 g	ea.
BSE1AF-W080	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 105 g	ea.
BSE1AF-W120	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 155 g	ea.
BSE1AF-W220 ⚠	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 300 g	ea.
BSE1AF-W330 ⚠	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 420 g	ea.
BSE1AF-S0800 ⚠	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 1.08 kg	ea.
BSE1AF-S1600 ⚠	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 2.14 kg	ea.
BSE1AF-S3000 ⚠	BGB Scorpius Flash Cartridge, C18e-HP 100 Å, Spherical 30 µm, 3.83 kg	ea.



Part No.	Description	Qty.
BSC1CF-W004	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 4.5 g	pk.2
BSC1CF-W012	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 18 g	ea.
BSC1CF-W025	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 28 g	ea.
BSC1CF-W040	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 40 g	ea.
BSC1CF-W080	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 90 g	ea.
BSC1CF-W120	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 130 g	ea.
BSC1CF-W220 ⚠	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 245 g	ea.
BSC1CF-W330 ⚠	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 350 g	ea.
BSC1CF-S0800 ⚠	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 900 g	ea.
BSC1CF-S1600 ⚠	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 1.78 kg	ea.
BSC1CF-S3000 ⚠	BGB Scorpius Flash Cartridge, C18e-HP 120 Å, Spherical 50 µm, 3.2 kg	ea.



⚠ **ATTENTION:** It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.

BGB Scorpius C18e-HP Bulk Material

Part No.	Description	Qty.
BSE1IB-K1	BGB Scorpius Bulk Material, C18e-HP 100 Å, 5 µm, 100 g	ea.
BSE1IB-K4	BGB Scorpius Bulk Material, C18e-HP 100 Å, 5 µm, 1 kg	ea.
BSE1JB-K1	BGB Scorpius Bulk Material, C18e-HP 100 Å, 10 µm, 100 g	ea.
BSE1JB-K4	BGB Scorpius Bulk Material, C18e-HP 100 Å, 10 µm, 1 kg	ea.
BSE1KB-K1	BGB Scorpius Bulk Material, C18e-HP 100 Å, 15 µm, 100 g	ea.
BSE1KB-K4	BGB Scorpius Bulk Material, C18e-HP 100 Å, 15 µm, 1 kg	ea.
BSE1AB-K1	BGB Scorpius Bulk Material, C18e-HP 100 Å, 30 µm, 100 g	ea.
BSE1AB-K4	BGB Scorpius Bulk Material, C18e-HP 100 Å, 30 µm, 1 kg	ea.



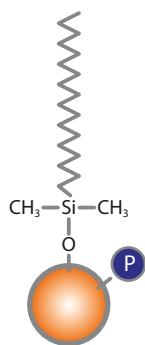
BGB Scorpius C18e-HP HPLC Columns

Part No.	Description	Qty.
BSE1ICO-1505	BGB Scorpius HPLC Column, C18e-HP 100 Å, 5 µm, 4.6 x 150 mm	ea.
BSE1ICO-2505	BGB Scorpius HPLC Column, C18e-HP 100 Å, 5 µm, 4.6 x 250 mm	ea.
BSE1ICO-1520	BGB Scorpius HPLC Column, C18e-HP 100 Å, 5 µm, 21.2 x 150 mm	ea.
BSE1ICO-2520	BGB Scorpius HPLC Column, C18e-HP 100 Å, 5 µm, 21.2 x 250 mm	ea.
BSE1JCO-1505	BGB Scorpius HPLC Column, C18e-HP 100 Å, 10 µm, 4.6 x 150 mm	ea.
BSE1JCO-2505	BGB Scorpius HPLC Column, C18e-HP 100 Å, 10 µm, 4.6 x 250 mm	ea.
BSE1JCO-1520	BGB Scorpius HPLC Column, C18e-HP 100 Å, 10 µm, 21.2 x 150 mm	ea.
BSE1JCO-2520	BGB Scorpius HPLC Column, C18e-HP 100 Å, 10 µm, 21.2 x 250 mm	ea.
BSE1JCO-1530	BGB Scorpius HPLC Column, C18e-HP 100 Å, 10 µm, 30.0 x 150 mm	ea.
BSE1JCO-2530	BGB Scorpius HPLC Column, C18e-HP 100 Å, 10 µm, 30.0 x 250 mm	ea.
BSE1JCO-1550	BGB Scorpius HPLC Column, C18e-HP 100 Å, 10 µm, 50.0 x 150 mm	ea.
BSE1JCO-2550	BGB Scorpius HPLC Column, C18e-HP 100 Å, 10 µm, 50.0 x 250 mm	ea.
BSE1KCO-1505	BGB Scorpius HPLC Column, C18e-HP 100 Å, 15 µm, 4.6 x 150 mm	ea.
BSE1KCO-2505	BGB Scorpius HPLC Column, C18e-HP 100 Å, 15 µm, 4.6 x 250 mm	ea.
BSE1KCO-1520	BGB Scorpius HPLC Column, C18e-HP 100 Å, 15 µm, 21.2 x 150 mm	ea.
BSE1KCO-2520	BGB Scorpius HPLC Column, C18e-HP 100 Å, 15 µm, 21.2 x 250 mm	ea.
BSE1KCO-1530	BGB Scorpius HPLC Column, C18e-HP 100 Å, 15 µm, 30.0 x 150 mm	ea.
BSE1KCO-2530	BGB Scorpius HPLC Column, C18e-HP 100 Å, 15 µm, 30.0 x 250 mm	ea.
BSE1KCO-1550	BGB Scorpius HPLC Column, C18e-HP 100 Å, 15 µm, 50.0 x 150 mm	ea.
BSE1KCO-2550	BGB Scorpius HPLC Column, C18e-HP 100 Å, 15 µm, 50.0 x 250 mm	ea.
BSE1ACO-1505	BGB Scorpius HPLC Column, C18e-HP 100 Å, 30 µm, 4.6 x 150 mm	ea.
BSE1ACO-2505	BGB Scorpius HPLC Column, C18e-HP 100 Å, 30 µm, 4.6 x 250 mm	ea.
BSE1ACO-1520	BGB Scorpius HPLC Column, C18e-HP 100 Å, 30 µm, 21.2 x 150 mm	ea.
BSE1ACO-2520	BGB Scorpius HPLC Column, C18e-HP 100 Å, 30 µm, 21.2 x 250 mm	ea.
BSE1ACO-1530	BGB Scorpius HPLC Column, C18e-HP 100 Å, 30 µm, 30.0 x 150 mm	ea.
BSE1ACO-2530	BGB Scorpius HPLC Column, C18e-HP 100 Å, 30 µm, 30.0 x 250 mm	ea.
BSE1ACO-1550	BGB Scorpius HPLC Column, C18e-HP 100 Å, 30 µm, 50.0 x 150 mm	ea.
BSE1ACO-2550	BGB Scorpius HPLC Column, C18e-HP 100 Å, 30 µm, 50.0 x 250 mm	ea.



Empty Flash column hardware
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BGB Aquarius C18AQ (Polar Endcapped)

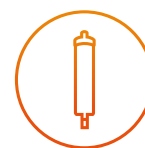


Phase:	Spherical Ultra-Pure C18 monomeric bonded polar endcapped			
Particle Size:	5 µm	10 µm	15 µm	30 µm
Pore Size:	100 Å	100 Å	100 Å	100 Å
Surface Area:	320 m ² /g	320 m ² /g	320 m ² /g	320 m ² /g
Endcapped:	yes	yes	yes	yes
Carbon Load:	10%	10%	10%	10%
pH Range:	2–8	2–8	2–8	2–8



BGB Aquarius C18AQ Flash Cartridges

Part No.	Description	Qty.
BAC5KF-W004	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 15 µm, 5.4 g	pk.2
BAC5KF-W012	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 15 µm, 20 g	ea.
BAC5KF-W025	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 15 µm, 33 g	ea.
BAC5KF-W040	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 15 µm, 48 g	ea.
BAC5KF-W080	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 15 µm, 105 g	ea.
BAC5KF-W120	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 15 µm, 155 g	ea.
BAC5KF-W220 ⚠	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 15 µm, 290 g	ea.
BAC5KF-W330 ⚠	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 15 µm, 410 g	ea.
BAC5KF-S0800 ⚠	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 15 µm, 1.05 kg	ea.
BAC5KF-S1600 ⚠	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 15 µm, 2.09 kg	ea.
BAC5KF-S3000 ⚠	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 15 µm, 3.75 kg	ea.



Part No.	Description	Qty.
BAC5AF-W004	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 30 µm, 5.4 g	pk.2
BAC5AF-W012	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 30 µm, 20 g	ea.
BAC5AF-W025	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 30 µm, 33 g	ea.
BAC5AF-W040	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 30 µm, 48 g	ea.
BAC5AF-W080	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 30 µm, 105 g	ea.
BAC5AF-W120	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 30 µm, 155 g	ea.
BAC5AF-W220 ⚠	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 30 µm, 300 g	ea.
BAC5AF-W330 ⚠	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 30 µm, 420 g	ea.
BAC5AF-S0800 ⚠	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 30 µm, 1.08 kg	ea.
BAC5AF-S1600 ⚠	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 30 µm, 2.14 kg	ea.
BAC5AF-S3000 ⚠	BGB Aquarius Flash Cartridge, C18AQ 100 Å, Spherical 30 µm, 3.83 kg	ea.



⚠ ATTENTION: It is recommended to set the flow rate at 50–60% of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.

BGB Aquarius C18AQ Bulk Material

Part No.	Description	Qty.
BSC5IB-K1	BGB Aquarius Bulk Material, C18AQ 100 Å, 5 µm, 100 g	ea.
BSC5IB-K4	BGB Aquarius Bulk Material, C18AQ 100 Å, 5 µm, 1 kg	ea.
BSC5JB-K1	BGB Aquarius Bulk Material, C18AQ 100 Å, 10 µm, 100 g	ea.
BSC5JB-K4	BGB Aquarius Bulk Material, C18AQ 100 Å, 10 µm, 1 kg	ea.
BSC5KB-K1	BGB Aquarius Bulk Material, C18AQ 100 Å, 15 µm, 100 g	ea.
BSC5KB-K4	BGB Aquarius Bulk Material, C18AQ 100 Å, 15 µm, 1 kg	ea.
BSC5AB-K1	BGB Aquarius Bulk Material, C18AQ 100 Å, 30 µm, 100 g	ea.
BSC5AB-K4	BGB Aquarius Bulk Material, C18AQ 100 Å, 30 µm, 1 kg	ea.



BGB Aquarius C18AQ HPLC Columns

Part No.	Description	Qty.
BSC5ICO-1505	BGB Aquarius HPLC Column, C18AQ 100 Å, 5 µm, 4.6 x 150 mm	ea.
BSC5ICO-2505	BGB Aquarius HPLC Column, C18AQ 100 Å, 5 µm, 4.6 x 250 mm	ea.
BSC5ICO-1520	BGB Aquarius HPLC Column, C18AQ 100 Å, 5 µm, 21.2 x 150 mm	ea.
BSC5ICO-2520	BGB Aquarius HPLC Column, C18AQ 100 Å, 5 µm, 21.2 x 250 mm	ea.
BSC5JCO-1505	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 4.6 x 150 mm	ea.
BSC5JCO-2505	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 4.6 x 250 mm	ea.
BSC5JCO-1520	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 21.2 x 150 mm	ea.
BSC5JCO-2520	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 21.2 x 250 mm	ea.
BSC5JCO-1530	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 30.0 x 150 mm	ea.
BSC5JCO-2530	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 30.0 x 250 mm	ea.
BSC5JCO-1550	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 50.0 x 150 mm	ea.
BSC5JCO-2550	BGB Aquarius HPLC Column, C18AQ 100 Å, 10 µm, 50.0 x 250 mm	ea.
BSC5KCO-1505	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 4.6 x 150 mm	ea.
BSC5KCO-2505	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 4.6 x 250 mm	ea.
BSC5KCO-1520	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 21.2 x 150 mm	ea.
BSC5KCO-2520	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 21.2 x 250 mm	ea.
BSC5KCO-1530	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 30.0 x 150 mm	ea.
BSC5KCO-2530	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 30.0 x 250 mm	ea.
BSC5KCO-1550	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 50.0 x 150 mm	ea.
BSC5KCO-2550	BGB Aquarius HPLC Column, C18AQ 100 Å, 15 µm, 50.0 x 250 mm	ea.
BSC5ACO-1505	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 4.6 x 150 mm	ea.
BSC5ACO-2505	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 4.6 x 250 mm	ea.
BSC5ACO-1520	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 21.2 x 150 mm	ea.
BSC5ACO-2520	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 21.2 x 250 mm	ea.
BSC5ACO-1530	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 30.0 x 150 mm	ea.
BSC5ACO-2530	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 30.0 x 250 mm	ea.
BSC5ACO-1550	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 50.0 x 150 mm	ea.
BSC5ACO-2550	BGB Aquarius HPLC Column, C18AQ 100 Å, 30 µm, 50.0 x 250 mm	ea.



Empty Flash column hardware
see page 24–26

BGB Taurus C18T Wide Pore



Phase:	Spherical Ultra-Pure Wide Pore C18 polymeric bonded			
Particle Size:	5 µm	10 µm	15 µm	30 µm
Pore Size:	300 Å	300 Å	300 Å	300 Å
Surface Area:	90 m ² /g	90 m ² /g	90 m ² /g	90 m ² /g
Endcapped:	yes	yes	yes	yes
Carbon Load:	10%	10%	10%	10%
pH Range:	1.5–7	1.5–7	1.5–7	1.5–7



BGB Taurus C18T Flash Cartridges

Part No.	Description	Qty.
BTW6KF-W004	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 15 µm, 4.5 g	pk.2
BTW6KF-W012	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 15 µm, 16 g	ea.
BTW6KF-W025	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 15 µm, 26 g	ea.
BTW6KF-W040	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 15 µm, 38 g	ea.
BTW6KF-W080	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 15 µm, 82 g	ea.
BTW6KF-W120	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 15 µm, 120 g	ea.
BTW6KF-W220	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 15 µm, 225 g	ea.
BTW6KF-W330	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 15 µm, 320 g	ea.



Part No.	Description	Qty.
BTW6AF-W004	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 30 µm, 4.5 g	pk.2
BTW6AF-W012	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 30 µm, 16 g	ea.
BTW6AF-W025	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 30 µm, 26 g	ea.
BTW6AF-W040	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 30 µm, 38 g	ea.
BTW6AF-W080	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 30 µm, 82 g	ea.
BTW6AF-W120	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 30 µm, 120 g	ea.
BTW6AF-W220	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 30 µm, 225 g	ea.
BTW6AF-W330	BGB Taurus Flash Cartridge, C18T 300 Å, Spherical 30 µm, 320 g	ea.



ATTENTION: It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.

BGB Taurus C18T Bulk Material

Part No.	Description	Qty.
BTW6IB-K1	BGB Taurus Bulk Material, C18T 300Å, 5µm, 100g	ea.
BTW6IB-K4	BGB Taurus Bulk Material, C18T 300Å, 5µm, 1kg	ea.
BTW6JB-K1	BGB Taurus Bulk Material, C18T 300Å, 10µm, 100g	ea.
BTW6JB-K4	BGB Taurus Bulk Material, C18T 300Å, 10µm, 1kg	ea.
BTW6KB-K1	BGB Taurus Bulk Material, C18T 300Å, 15µm, 100g	ea.
BTW6KB-K4	BGB Taurus Bulk Material, C18T 300Å, 15µm, 1kg	ea.
BTW6AB-K1	BGB Taurus Bulk Material, C18T 300Å, 30µm, 100g	ea.
BTW6AB-K4	BGB Taurus Bulk Material, C18T 300Å, 30µm, 1kg	ea.



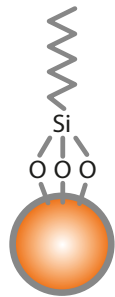
BGB Taurus C18T HPLC Columns

Part No.	Description	Qty.
BTW6ICO-1505	BGB Taurus HPLC Column, C18T 300Å, 5µm, 4.6 x 150mm	ea.
BTW6ICO-2505	BGB Taurus HPLC Column, C18T 300Å, 5µm, 4.6 x 250mm	ea.
BTW6ICO-1520	BGB Taurus HPLC Column, C18T 300Å, 5µm, 21.2 x 150mm	ea.
BTW6ICO-2520	BGB Taurus HPLC Column, C18T 300Å, 5µm, 21.2 x 250mm	ea.
BTW6JCO-1505	BGB Taurus HPLC Column, C18T 300Å, 10µm, 4.6 x 150mm	ea.
BTW6JCO-2505	BGB Taurus HPLC Column, C18T 300Å, 10µm, 4.6 x 250mm	ea.
BTW6JCO-1520	BGB Taurus HPLC Column, C18T 300Å, 10µm, 21.2 x 150mm	ea.
BTW6JCO-2520	BGB Taurus HPLC Column, C18T 300Å, 10µm, 21.2 x 250mm	ea.
BTW6JCO-1530	BGB Taurus HPLC Column, C18T 300Å, 10µm, 30.0 x 150mm	ea.
BTW6JCO-2530	BGB Taurus HPLC Column, C18T 300Å, 10µm, 30.0 x 250mm	ea.
BTW6JCO-1550	BGB Taurus HPLC Column, C18T 300Å, 10µm, 50.0 x 150mm	ea.
BTW6JCO-2550	BGB Taurus HPLC Column, C18T 300Å, 10µm, 50.0 x 250mm	ea.
BTW6KCO-1505	BGB Taurus HPLC Column, C18T 300Å, 15µm, 4.6 x 150mm	ea.
BTW6KCO-2505	BGB Taurus HPLC Column, C18T 300Å, 15µm, 4.6 x 250mm	ea.
BTW6KCO-1520	BGB Taurus HPLC Column, C18T 300Å, 15µm, 21.2 x 150mm	ea.
BTW6KCO-2520	BGB Taurus HPLC Column, C18T 300Å, 15µm, 21.2 x 250mm	ea.
BTW6KCO-1530	BGB Taurus HPLC Column, C18T 300Å, 15µm, 30.0 x 150mm	ea.
BTW6KCO-2530	BGB Taurus HPLC Column, C18T 300Å, 15µm, 30.0 x 250mm	ea.
BTW6KCO-1550	BGB Taurus HPLC Column, C18T 300Å, 15µm, 50.0 x 150mm	ea.
BTW6KCO-2550	BGB Taurus HPLC Column, C18T 300Å, 15µm, 50.0 x 250mm	ea.
BTW6ACO-1505	BGB Taurus HPLC Column, C18T 300Å, 30µm, 4.6 x 150mm	ea.
BTW6ACO-2505	BGB Taurus HPLC Column, C18T 300Å, 30µm, 4.6 x 250mm	ea.
BTW6ACO-1520	BGB Taurus HPLC Column, C18T 300Å, 30µm, 21.2 x 150mm	ea.
BTW6ACO-2520	BGB Taurus HPLC Column, C18T 300Å, 30µm, 21.2 x 250mm	ea.
BTW6ACO-1530	BGB Taurus HPLC Column, C18T 300Å, 30µm, 30.0 x 150mm	ea.
BTW6ACO-2530	BGB Taurus HPLC Column, C18T 300Å, 30µm, 30.0 x 250mm	ea.
BTW6ACO-1550	BGB Taurus HPLC Column, C18T 300Å, 30µm, 50.0 x 150mm	ea.
BTW6ACO-2550	BGB Taurus HPLC Column, C18T 300Å, 30µm, 50.0 x 250mm	ea.



Empty Flash column hardware
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BGB Taurus C8T Wide Pore



Phase:	Spherical Ultra-Pure Wide Pore C8 polymeric bonded			
Particle Size:	5 µm	10 µm	15 µm	30 µm
Pore Size:	300 Å	300 Å	300 Å	300 Å
Surface Area:	90 m ² /g	90 m ² /g	90 m ² /g	90 m ² /g
Endcapped:	yes	yes	yes	yes
Carbon Load:	5 %	5 %	5 %	5 %
pH Range:	1.5–7	1.5–7	1.5–7	1.5–7



BGB Taurus C8T Flash Cartridges

Part No.	Description	Qty.
BTW0KF-W004	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 4.5 g	pk.2
BTW0KF-W012	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 16 g	ea.
BTW0KF-W025	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 26 g	ea.
BTW0KF-W040	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 38 g	ea.
BTW0KF-W080	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 82 g	ea.
BTW0KF-W120	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 120 g	ea.
BTW0KF-W220	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 225 g	ea.
BTW0KF-W330	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 15 µm, 320 g	ea.



Part No.	Description	Qty.
BTW0AF-W004	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 4.5 g	pk.2
BTW0AF-W012	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 16 g	ea.
BTW0AF-W025	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 26 g	ea.
BTW0AF-W040	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 38 g	ea.
BTW0AF-W080	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 82 g	ea.
BTW0AF-W120	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 120 g	ea.
BTW0AF-W220	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 225 g	ea.
BTW0AF-W330	BGB Taurus Flash Cartridge, C8T 300 Å, Spherical 30 µm, 320 g	ea.



ATTENTION: It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.

BGB Taurus C8T Bulk Material

Part No.	Description	Qty.
BTW0IB-K1	BGB Taurus Bulk Material, C8T 300 Å, 5 µm, 100 g	ea.
BTW0IB-K4	BGB Taurus Bulk Material, C8T 300 Å, 5 µm, 1 kg	ea.
BTW0JB-K1	BGB Taurus Bulk Material, C8T 300 Å, 10 µm, 100 g	ea.
BTW0JB-K4	BGB Taurus Bulk Material, C8T 300 Å, 10 µm, 1 kg	ea.
BTW0KB-K1	BGB Taurus Bulk Material, C8T 300 Å, 15 µm, 100 g	ea.
BTW0KB-K4	BGB Taurus Bulk Material, C8T 300 Å, 15 µm, 1 kg	ea.
BTW0AB-K1	BGB Taurus Bulk Material, C8T 300 Å, 30 µm, 100 g	ea.
BTW0AB-K4	BGB Taurus Bulk Material, C8T 300 Å, 30 µm, 1 kg	ea.



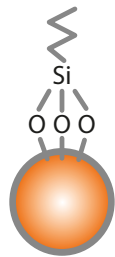
BGB Taurus C8T HPLC Columns

Part No.	Description	Qty.
BTW0ICO-1505	BGB Taurus HPLC Column, C8T 300 Å, 5 µm, 4.6 x 150 mm	ea.
BTW0ICO-2505	BGB Taurus HPLC Column, C8T 300 Å, 5 µm, 4.6 x 250 mm	ea.
BTW0ICO-1520	BGB Taurus HPLC Column, C8T 300 Å, 5 µm, 21.2 x 150 mm	ea.
BTW0ICO-2520	BGB Taurus HPLC Column, C8T 300 Å, 5 µm, 21.2 x 250 mm	ea.
BTW0JCO-1505	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 4.6 x 150 mm	ea.
BTW0JCO-2505	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 4.6 x 250 mm	ea.
BTW0JCO-1520	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 21.2 x 150 mm	ea.
BTW0JCO-2520	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 21.2 x 250 mm	ea.
BTW0JCO-1530	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 30.0 x 150 mm	ea.
BTW0JCO-2530	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 30.0 x 250 mm	ea.
BTW0JCO-1550	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 50.0 x 150 mm	ea.
BTW0JCO-2550	BGB Taurus HPLC Column, C8T 300 Å, 10 µm, 50.0 x 250 mm	ea.
BTW0KCO-1505	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 4.6 x 150 mm	ea.
BTW0KCO-2505	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 4.6 x 250 mm	ea.
BTW0KCO-1520	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 21.2 x 150 mm	ea.
BTW0KCO-2520	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 21.2 x 250 mm	ea.
BTW0KCO-1530	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 30.0 x 150 mm	ea.
BTW0KCO-2530	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 30.0 x 250 mm	ea.
BTW0KCO-1550	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 50.0 x 150 mm	ea.
BTW0KCO-2550	BGB Taurus HPLC Column, C8T 300 Å, 15 µm, 50.0 x 250 mm	ea.
BTW0ACO-1505	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 4.6 x 150 mm	ea.
BTW0ACO-2505	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 4.6 x 250 mm	ea.
BTW0ACO-1520	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 21.2 x 150 mm	ea.
BTW0ACO-2520	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 21.2 x 250 mm	ea.
BTW0ACO-1530	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 30.0 x 150 mm	ea.
BTW0ACO-2530	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 30.0 x 250 mm	ea.
BTW0ACO-1550	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 50.0 x 150 mm	ea.
BTW0ACO-2550	BGB Taurus HPLC Column, C8T 300 Å, 30 µm, 50.0 x 250 mm	ea.



Empty Flash column hardware
see page 24–26

BGB Taurus C4T Wide Pore

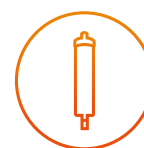


Phase:	Spherical Ultra-Pure Wide Pore C4 polymeric bonded			
Particle Size:	5 μm	10 μm	15 μm	30 μm
Pore Size:	300 \AA	300 \AA	300 \AA	300 \AA
Surface Area:	90 m^2/g	90 m^2/g	90 m^2/g	90 m^2/g
Endcapped:	yes	yes	yes	yes
Carbon Load:	3 %	3 %	3 %	3 %
pH Range:	1.5–7	1.5–7	1.5–7	1.5–7



BGB Taurus C4T Flash Cartridges

Part No.	Description	Qty.
BTW1KF-W004	BGB Taurus Flash Cartridge, C4T 300 \AA , Spherical 15 μm , 4.5 g	pk.2
BTW1KF-W012	BGB Taurus Flash Cartridge, C4T 300 \AA , Spherical 15 μm , 16 g	ea.
BTW1KF-W025	BGB Taurus Flash Cartridge, C4T 300 \AA , Spherical 15 μm , 26 g	ea.
BTW1KF-W040	BGB Taurus Flash Cartridge, C4T 300 \AA , Spherical 15 μm , 38 g	ea.
BTW1KF-W080	BGB Taurus Flash Cartridge, C4T 300 \AA , Spherical 15 μm , 82 g	ea.
BTW1KF-W120	BGB Taurus Flash Cartridge, C4T 300 \AA , Spherical 15 μm , 120 g	ea.
BTW1KF-W220	BGB Taurus Flash Cartridge, C4T 300 \AA , Spherical 15 μm , 225 g	ea.
BTW1KF-W330	BGB Taurus Flash Cartridge, C4T 300 \AA , Spherical 15 μm , 320 g	ea.



Part No.	Description	Qty.
BTW1AF-W004	BGB Taurus Flash Cartridge, C4T 300 \AA , Spherical 30 μm , 4.5 g	pk.2
BTW1AF-W012	BGB Taurus Flash Cartridge, C4T 300 \AA , Spherical 30 μm , 16 g	ea.
BTW1AF-W025	BGB Taurus Flash Cartridge, C4T 300 \AA , Spherical 30 μm , 26 g	ea.
BTW1AF-W040	BGB Taurus Flash Cartridge, C4T 300 \AA , Spherical 30 μm , 38 g	ea.
BTW1AF-W080	BGB Taurus Flash Cartridge, C4T 300 \AA , Spherical 30 μm , 82 g	ea.
BTW1AF-W120	BGB Taurus Flash Cartridge, C4T 300 \AA , Spherical 30 μm , 120 g	ea.
BTW1AF-W220	BGB Taurus Flash Cartridge, C4T 300 \AA , Spherical 30 μm , 225 g	ea.
BTW1AF-W330	BGB Taurus Flash Cartridge, C4T 300 \AA , Spherical 30 μm , 320 g	ea.



ATTENTION: It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.

BGB Taurus C4T Bulk Material

Part No.	Description	Qty.
BTW1IB-K1	BGB Taurus Bulk Material, C4T 300 Å, 5 µm, 100 g	ea.
BTW1IB-K4	BGB Taurus Bulk Material, C4T 300 Å, 5 µm, 1 kg	ea.
BTW1JB-K1	BGB Taurus Bulk Material, C4T 300 Å, 10 µm, 100 g	ea.
BTW1JB-K4	BGB Taurus Bulk Material, C4T 300 Å, 10 µm, 1 kg	ea.
BTW1KB-K1	BGB Taurus Bulk Material, C4T 300 Å, 15 µm, 100 g	ea.
BTW1KB-K4	BGB Taurus Bulk Material, C4T 300 Å, 15 µm, 1 kg	ea.
BTW1AB-K1	BGB Taurus Bulk Material, C4T 300 Å, 30 µm, 100 g	ea.
BTW1AB-K4	BGB Taurus Bulk Material, C4T 300 Å, 30 µm, 1 kg	ea.



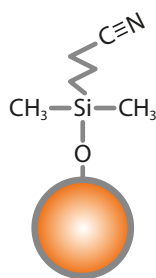
BGB Taurus C4T HPLC Columns

Part No.	Description	Qty.
BTW1ICO-1505	BGB Taurus HPLC Column, C4T 300 Å, 5 µm, 4.6 x 150 mm	ea.
BTW1ICO-2505	BGB Taurus HPLC Column, C4T 300 Å, 5 µm, 4.6 x 250 mm	ea.
BTW1ICO-1520	BGB Taurus HPLC Column, C4T 300 Å, 5 µm, 21.2 x 150 mm	ea.
BTW1ICO-2520	BGB Taurus HPLC Column, C4T 300 Å, 5 µm, 21.2 x 250 mm	ea.
BTW1JCO-1505	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 4.6 x 150 mm	ea.
BTW1JCO-2505	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 4.6 x 250 mm	ea.
BTW1JCO-1520	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 21.2 x 150 mm	ea.
BTW1JCO-2520	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 21.2 x 250 mm	ea.
BTW1JCO-1530	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 30.0 x 150 mm	ea.
BTW1JCO-2530	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 30.0 x 250 mm	ea.
BTW1JCO-1550	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 50.0 x 150 mm	ea.
BTW1JCO-2550	BGB Taurus HPLC Column, C4T 300 Å, 10 µm, 50.0 x 250 mm	ea.
BTW1KCO-1505	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 4.6 x 150 mm	ea.
BTW1KCO-2505	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 4.6 x 250 mm	ea.
BTW1KCO-1520	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 21.2 x 150 mm	ea.
BTW1KCO-2520	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 21.2 x 250 mm	ea.
BTW1KCO-1530	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 30.0 x 150 mm	ea.
BTW1KCO-2530	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 30.0 x 250 mm	ea.
BTW1KCO-1550	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 50.0 x 150 mm	ea.
BTW1KCO-2550	BGB Taurus HPLC Column, C4T 300 Å, 15 µm, 50.0 x 250 mm	ea.
BTW1ACO-1505	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 4.6 x 150 mm	ea.
BTW1ACO-2505	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 4.6 x 250 mm	ea.
BTW1ACO-1520	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 21.2 x 150 mm	ea.
BTW1ACO-2520	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 21.2 x 250 mm	ea.
BTW1ACO-1530	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 30.0 x 150 mm	ea.
BTW1ACO-2530	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 30.0 x 250 mm	ea.
BTW1ACO-1550	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 50.0 x 150 mm	ea.
BTW1ACO-2550	BGB Taurus HPLC Column, C4T 300 Å, 30 µm, 50.0 x 250 mm	ea.



Empty Flash column hardware
see page 24–26

BGB Scorpius Cyano and Diol

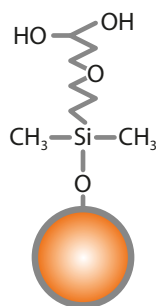
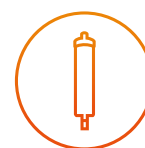


Phase:	Spherical Ultra-Pure Cyano (CN) bonded
Particle Size:	30 μm
Pore Size:	100 Å
Surface Area:	320 m ² /g
Endcapped:	yes
Carbon Load:	5.5 %
pH Range:	2–8



BGB Scorpius Cyano (CN) Flash Cartridges

Part No.	Description	Qty.
BSCNAF-W004	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 5.4 g	pk.2
BSCNAF-W012	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 20 g	ea.
BSCNAF-W025	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 33 g	ea.
BSCNAF-W040	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 48 g	ea.
BSCNAF-W080	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 105 g	ea.
BSCNAF-W120	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 155 g	ea.
BSCNAF-W220 ⚠	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 300 g	ea.
BSCNAF-W330 ⚠	BGB Scorpius Flash Cartridge, Cyano (CN) 100 Å, Spherical 30 μm, 420 g	ea.

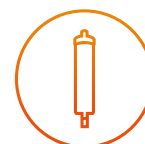


Phase:	Spherical Ultra-Pure Diol bonded
Particle Size:	30 μm
Pore Size:	100 Å
Surface Area:	320 m ² /g
Endcapped:	yes
Carbon Load:	5 %
pH Range:	2–8



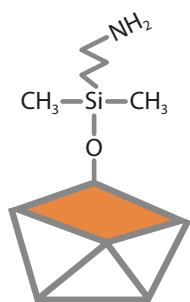
BGB Scorpius Diol (OH) Flash Cartridges

Part No.	Description	Qty.
BSOHAF-W004	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 5.4 g	pk.2
BSOHAF-W012	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 20 g	ea.
BSOHAF-W025	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 33 g	ea.
BSOHAF-W040	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 48 g	ea.
BSOHAF-W080	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 105 g	ea.
BSOHAF-W120	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 155 g	ea.
BSOHAF-W220 ⚠	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 300 g	ea.
BSOHAF-W330 ⚠	BGB Scorpius Flash Cartridge, Diol (OH) 100 Å, Spherical 30 μm, 420 g	ea.



⚠ ATTENTION: It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.



BGB Scorpius Amino




Phase:	Irregular Ultra-Pure Amino bonded
Particle Size:	50 μm
Pore Size:	60 \AA
Surface Area:	500 m^2/g
Endcapped:	yes
Carbon Load:	5 %
pH Range:	2–8



BGB Scorpius Amino (NH₂) Flash Cartridges

Part No.	Description	Qty.
BSNHAF-W004	BGB Scorpius Flash Cartridge, Amino (NH ₂) 60 \AA , Irregular 50 μm (40–63 μm), 5.9 g	pk.2
BSNHAF-W012	BGB Scorpius Flash Cartridge, Amino (NH ₂) 60 \AA , Irregular 50 μm (40–63 μm), 23 g	ea.
BSNHAF-W025	BGB Scorpius Flash Cartridge, Amino (NH ₂) 60 \AA , Irregular 50 μm (40–63 μm), 38 g	ea.
BSNHAF-W040	BGB Scorpius Flash Cartridge, Amino (NH ₂) 60 \AA , Irregular 50 μm (40–63 μm), 55 g	ea.
BSNHAF-W080	BGB Scorpius Flash Cartridge, Amino (NH ₂) 60 \AA , Irregular 50 μm (40–63 μm), 122 g	ea.
BSNHAF-W120	BGB Scorpius Flash Cartridge, Amino (NH ₂) 60 \AA , Irregular 50 μm (40–63 μm), 180 g	ea.
BSNHAF-W220 	BGB Scorpius Flash Cartridge, Amino (NH ₂) 60 \AA , Irregular 50 μm (40–63 μm), 340 g	ea.
BSNHAF-W330 	BGB Scorpius Flash Cartridge, Amino (NH ₂) 60 \AA , Irregular 50 μm (40–63 μm), 475 g	ea.

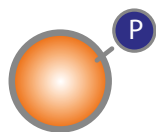


 **ATTENTION:** It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.



Empty Flash column hardware
see page 24–26

BGB Aquarius HILIC-D and HILIC-ARG

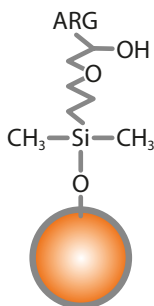


Phase:	Spherical Ultra-Pure proprietary bonded
Particle Size:	30 µm
Pore Size:	100 Å
Surface Area:	320 m ² /g
Endcapped:	yes
Carbon Load:	5%
pH Range:	2–8



BGB Aquarius HILIC-D Flash Cartridges

Part No.	Description	Qty.
BAHDAF-W004	BGB Aquarius Flash Cartridge, HILIC-D 100 Å, Spherical 30 µm, 5.4 g	pk.2
BAHDAF-W012	BGB Aquarius Flash Cartridge, HILIC-D 100 Å, Spherical 30 µm, 20 g	ea.
BAHDAF-W025	BGB Aquarius Flash Cartridge, HILIC-D 100 Å, Spherical 30 µm, 33 g	ea.
BAHDAF-W040	BGB Aquarius Flash Cartridge, HILIC-D 100 Å, Spherical 30 µm, 48 g	ea.
BAHDAF-W080	BGB Aquarius Flash Cartridge, HILIC-D 100 Å, Spherical 30 µm, 105 g	ea.
BAHDAF-W120	BGB Aquarius Flash Cartridge, HILIC-D 100 Å, Spherical 30 µm, 155 g	ea.
BAHDAF-W220 ⚠	BGB Aquarius Flash Cartridge, HILIC-D 100 Å, Spherical 30 µm, 300 g	ea.
BAHDAF-W330 ⚠	BGB Aquarius Flash Cartridge, HILIC-D 100 Å, Spherical 30 µm, 420 g	ea.



Phase:	Spherical Ultra-Pure Arginine Bonded Silica
Particle Size:	30 µm
Pore Size:	100 Å
Surface Area:	320 m ² /g
Endcapped:	yes
Carbon Load:	8%
pH Range:	2–8



BGB Aquarius HILIC-ARG Flash Cartridges

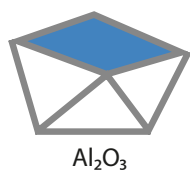
Part No.	Description	Qty.
BAHAAF-W004	BGB Aquarius Flash Cartridge, HILIC-ARG 100 Å, Spherical 30µm, 5.4g	pk.2
BAHAAF-W012	BGB Aquarius Flash Cartridge, HILIC-ARG 100 Å, Spherical 30µm, 20g	ea.
BAHAAF-W025	BGB Aquarius Flash Cartridge, HILIC-ARG 100 Å, Spherical 30µm, 33g	ea.
BAHAAF-W040	BGB Aquarius Flash Cartridge, HILIC-ARG 100 Å, Spherical 30µm, 48g	ea.
BAHAAF-W080	BGB Aquarius Flash Cartridge, HILIC-ARG 100 Å, Spherical 30µm, 105g	ea.
BAHAAF-W120	BGB Aquarius Flash Cartridge, HILIC-ARG 100 Å, Spherical 30µm, 155g	ea.
BAHAAF-W220 ⚠	BGB Aquarius Flash Cartridge, HILIC-ARG 100 Å, Spherical 30µm, 300g	ea.
BAHAAF-W330 ⚠	BGB Aquarius Flash Cartridge, HILIC-ARG 100 Å, Spherical 30µm, 420g	ea.



⚠ ATTENTION: It is recommended to set the flow rate at 50–60% of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.



BGB Scorpius Alumina Acidic, Basic and Neutral



Phase:	Irregular Ultra-Pure Alumina
Particle Size:	60 μm
Pore Size:	55 Å
Surface Area:	155 m ² /g
Endcapped:	n.a.
Carbon Load:	n.a.



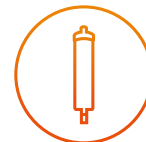
BGB Scorpius Alumina Acidic Flash Cartridges

Part No.	Description	Qty.
BSAADF-W004	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 8 g	pk.20
BSAADF-W012	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 24 g	pk.18
BSAADF-W025	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 50 g	pk.12
BSAADF-W040	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 80 g	pk.12
BSAADF-W080	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 160 g	pk.10
BSAADF-W120	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 240 g	pk.10
BSAADF-W220 ⚠	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 440 g	pk.6
BSAADF-W330 ⚠	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 660 g	pk.5
BSAADF-S0800 ⚠	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 1.6 kg	ea.
BSAADF-S1600 ⚠	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 3.2 kg	ea.
BSAADF-S3000 ⚠	BGB Scorpius Flash Cart., Alumina Acidic 55 Å, Irregular 60 μm (50-75 μm), 6 kg,	ea.



BGB Scorpius Alumina Basic Flash Cartridges

Part No.	Description	Qty.
BSABDF-W004	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 8 g	pk.20
BSABDF-W012	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 24 g	pk.18
BSABDF-W025	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 50 g	pk.12
BSABDF-W040	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 80 g	pk.12
BSABDF-W080	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 160 g	pk.10
BSABDF-W120	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 240 g	pk.10
BSABDF-W220 ⚠	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 440 g	pk.6
BSABDF-W330 ⚠	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 660 g	pk.5
BSABDF-S0800 ⚠	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 1.6 kg	ea.
BSABDF-S1600 ⚠	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 3.2 kg	ea.
BSABDF-S3000 ⚠	BGB Scorpius Flash Cart., Alumina Basic 55 Å, Irregular 60 μm (50-75 μm), 6 kg,	ea.



BGB Scorpius Alumina Neutral Flash Cartridges

Part No.	Description	Qty.
BSANDF-W004	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 8 g	pk.20
BSANDF-W012	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 24 g	pk.18
BSANDF-W025	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 50 g	pk.12
BSANDF-W040	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 80 g	pk.12
BSANDF-W080	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 160 g	pk.10
BSANDF-W120	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 240 g	pk.10
BSANDF-W220 ⚠	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 440 g	pk.6
BSANDF-W330 ⚠	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 660 g	pk.5
BSANDF-S0800 ⚠	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 1.6 kg	ea.
BSANDF-S1600 ⚠	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 3.2 kg	ea.
BSANDF-S3000 ⚠	BGB Scorpius Flash Cart., Alumina Neutral 55 Å, Irregular 60 μm (50-75 μm), 6 kg,	ea.



⚠ ATTENTION: It is recommended to set the flow rate at 50–60 % of the suggested flow rate in column equilibration process to avoid obvious thermal effect and frit blocking.

Features

BGB EZPack empty Flash Cartridges offer users convenience for self column packing but are also suitable for solid injection. In case of miscibility problems of compounds, this technic, also called dry load, is commonly used by chemists.

As for the complete range of BGB Flash Cartridges, BGB EZPack empty Flash Cartridges are done with an extra wall thickness. Reinforced body allows to work safely at higher pressure and ensure that the column is able to withstand the pressure capability of modern flash systems.

- Body in pharmaceutical-grade polypropylene
- Reinforced cartridge, pressure up to 13.8 bar (200 psi)
- Luer/Luer Lock connectors are compatible with most flash chromatography systems
- Flexible sample loading

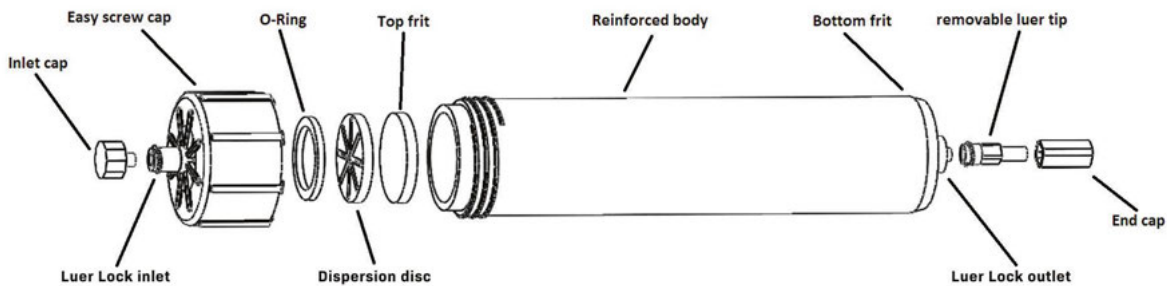


Hardware Parameters

Hardware	Inner Diameter	Bed Length	Max. Pressure	Top Frit*	Bottom Frit*
S0004	12.8 mm	60 mm	13.8 bar (200 psi)	16–20 µm	16–20 µm
S0012	21.4 mm	76 mm	13.8 bar (200 psi)	16–20 µm	16–20 µm
S0025	21.6 mm	126 mm	13.8 bar (200 psi)	16–20 µm	16–20 µm
S0040	26.8 mm	125 mm	13.8 bar (200 psi)	16–20 µm	16–20 µm
S0060	36.6 mm	99 mm	13.8 bar (200 psi)	20–25 µm	20–25 µm
S0080	31.2 mm	193 mm	13.8 bar (200 psi)	20–25 µm	20–25 µm
S0100	60.4 mm	61 mm	10.3 bar (150 psi)	20–25 µm	20–25 µm
S0120	36.6 mm	204 mm	13.8 bar (200 psi)	20–25 µm	20–25 µm
S0220	60.6 mm	131 mm	10.3 bar (150 psi)	20–25 µm	20–25 µm
S0330	60.6 mm	187 mm	10.3 bar (150 psi)	20–25 µm	20–25 µm

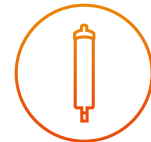
* All frits are made of polyethylene (PE).

Empty Cartridges and Frits

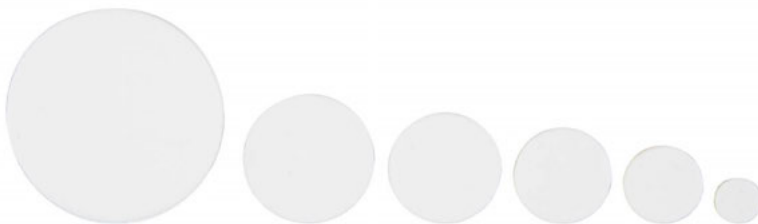


BGB EZPack empty Flash Cartridges

Part No.	Description	Qty.
BDL000F-S0004	BGB EZPak empty cartridges with O-ring and frits, 4 g	pk.20
BDL000F-S0012	BGB EZPak empty cartridges with O-ring and frits, 12 g	pk.18
BDL000F-S0025	BGB EZPak empty cartridges with O-ring and frits, 25 g	pk.12
BDL000F-S0040	BGB EZPak empty cartridges with O-ring and frits, 40 g	pk.12
BDL000F-S0060	BGB EZPak empty cartridges with O-ring and frits, 60 g	pk.12
BDL000F-S0080	BGB EZPak empty cartridges with O-ring and frits, 80 g	pk.10
BDL000F-S0100	BGB EZPak empty cartridges with O-ring and frits, 100 g	pk.6
BDL000F-S0120	BGB EZPak empty cartridges with O-ring and frits, 120 g	pk.10
BDL000F-S0220	BGB EZPak empty cartridges with O-ring and frits, 220 g	pk.6
BDL000F-S0330	BGB EZPak empty cartridges with O-ring and frits, 330 g	pk.5



BGB EZPack top and bottom Frits*



Part No.	Description	Qty.
BTFEZPPE-S0004	BGB Top frits for 4 g EZPak empty cartridges	pk.100
BTFEZPPE-S0012	BGB Top frits for 12 g EZPak empty cartridges	pk.100
BTFEZPPE-S0025	BGB Top frits for 25 g EZPak empty cartridges	pk.100
BTFEZPPE-S0040	BGB Top frits for 40 g EZPak empty cartridges	pk.100
BTFEZPPE-S0060	BGB Top frits for 60 g EZPak empty cartridges	pk.30
BTFEZPPE-S0080	BGB Top frits for 80 g EZPak empty cartridges	pk.30
BTFEZPPE-S0100	BGB Top frits for 100 g EZPak empty cartridges	pk.30
BTFEZPPE-S0120	BGB Top frits for 120 g EZPak empty cartridges	pk.30
BTFEZPPE-S0220	BGB Top frits for 220 g EZPak empty cartridges	pk.30
BTFEZPPE-S0330	BGB Top frits for 330 g EZPak empty cartridges	pk.30

Part No.	Description	Qty.
BBFEZPPE-S0004	BGB Bottom frits for 4 g EZPak empty cartridges	pk.100
BBFEZPPE-S0012	BGB Bottom frits for 12 g EZPak empty cartridges	pk.100
BBFEZPPE-S0025	BGB Bottom frits for 25 g EZPak empty cartridges	pk.100
BBFEZPPE-S0040	BGB Bottom frits for 40 g EZPak empty cartridges	pk.100
BBFEZPPE-S0060	BGB Bottom frits for 60 g EZPak empty cartridges	pk.30
BBFEZPPE-S0080	BGB Bottom frits for 80 g EZPak empty cartridges	pk.30
BBFEZPPE-S0100	BGB Bottom frits for 100 g EZPak empty cartridges	pk.30
BBFEZPPE-S0120	BGB Bottom frits for 120 g EZPak empty cartridges	pk.30
BBFEZPPE-S0220	BGB Bottom frits for 220 g EZPak empty cartridges	pk.30
BBFEZPPE-S0330	BGB Bottom frits for 330 g EZPak empty cartridges	pk.30

* All frits are made of polyethylene (PE).

O-Rings and Insertion Tools

BGB EZPack O-Rings, Silicone & FEP



Part No.	Description	Qty.
BOREZPSI-S0004	BGB O-Ring for 4 g EZPak empty cartridges, silicone	pk.100
BOREZPSI-S0012	BGB O-Ring for 12 g EZPak empty cartridges, silicone	pk.100
BOREZPSI-S0025	BGB O-Ring for 25 g EZPak empty cartridges, silicone	pk.100
BOREZPSI-S0040	BGB O-Ring for 40 g EZPak empty cartridges, silicone	pk.100
BOREZPSI-S0060	BGB O-Ring for 60 g EZPak empty cartridges, silicone	pk.30
BOREZPSI-S0080	BGB O-Ring for 80 g EZPak empty cartridges, silicone	pk.30
BOREZPSI-S0100	BGB O-Ring for 100 g EZPak empty cartridges, silicone	pk.30
BOREZPSI-S0120	BGB O-Ring for 120 g EZPak empty cartridges, silicone	pk.30
BOREZPSI-S0220	BGB O-Ring for 220 g EZPak empty cartridges, silicone	pk.30
BOREZPSI-S0330	BGB O-Ring for 330 g EZPak empty cartridges, silicone	pk.30



Part No.	Description	Qty.
BOREZPFEP-S0004	BGB O-Ring for 4 g EZPak empty cartridges, FEP	pk.50
BOREZPFEP-S0012	BGB O-Ring for 12 g EZPak empty cartridges, FEP	pk.50
BOREZPFEP-S0025	BGB O-Ring for 25 g EZPak empty cartridges, FEP	pk.50
BOREZPFEP-S0040	BGB O-Ring for 40 g EZPak empty cartridges, FEP	pk.50
BOREZPFEP-S0060	BGB O-Ring for 60 g EZPak empty cartridges, FEP	pk.20
BOREZPFEP-S0080	BGB O-Ring for 80 g EZPak empty cartridges, FEP	pk.20
BOREZPFEP-S0100	BGB O-Ring for 100 g EZPak empty cartridges, FEP	pk.10
BOREZPFEP-S0120	BGB O-Ring for 120 g EZPak empty cartridges, FEP	pk.20
BOREZPFEP-S0220	BGB O-Ring for 220 g EZPak empty cartridges, FEP	pk.10
BOREZPFEP-S0330	BGB O-Ring for 330 g EZPak empty cartridges, FEP	pk.10

Frit Insertion Tools



Part No.	Description	Qty.
BDL000TO-001	Frit Insertion Tool for type S0004	ea.
BDL000TO-002	Frit Insertion Tool for type S0012, S0025 and S0040	ea.
BDL000TO-003	Frit Insertion Tool for type S0060, S0080 and S0120	ea.
BDL000TO-004	Frit Insertion Tool for type S0100, S0220 and S0330	ea.

BGB Tips & Tricks

How to fill a BGB EZPack empty flash cartridge



Select the adapted size



Add the loaded silica



If needed, add additional silica, Celite or sand to reach the screw thread



Insert the top frit



Use the appropriate frit insertion tool to place the frit correctly



Add the o-ring



Screw cap until contact with the filter

NB: During packing, tap gently the cartridge to help silica to settle. When screwing the cap, do not screw too strongly. Just screw until contact with the frit. Start elution with 100 % non-eluting solvent, for 1 minute, to wet the dry loading without eluting the compounds.

How to prepare a dry load

To prepare your dry load, dissolve first your sample in a very good solvent in a quantity of 10 ml of solvent by g of compound. Add then a quantity of silica in a ratio of 2 g of silica by g of product. Mix and evaporate the solvent with a rotatory evaporator. The loaded silica must not be sticky.



Empty Flash column hardware
see page 24–26

BGB Tips & Tricks

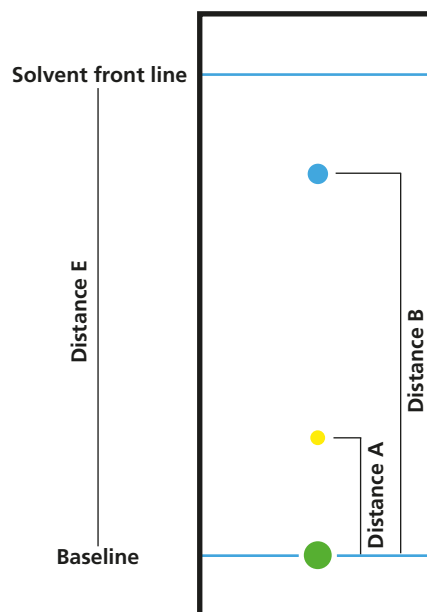
How to calculate the retention factor Rf from a TLC plate:

The retention factor Rf can be easily calculated directly from a TLC plate. After the separation is completed, individual compounds appear as spots separated vertically. Each spot A and B has a retention factor (Rf_A and Rf_B) which is equal to the distance migrated (Distance A and Distance B) over the total distance covered by the eluent (Distance E).

The formula is : $Rf = \text{distance traveled by sample} / \text{distance traveled by eluent}$

$$Rf_A = \text{Distance A} / \text{Distance E}$$

$$Rf_B = \text{Distance B} / \text{Distance E}$$



How to determine solvent composition in normal phase

In TLC (Thin Layer Chromatography), elution conditions are chosen to obtain a retention factor (Rf) of the products between $Rf = 0.1$ and 0.8 with ideally a Rf of $0.15-0.2$ for the product of interest. In flash chromatography, we can consider a good elution is obtained when the product of interest elutes with 7 to 10 column volumes. Note also, that in flash chromatography, we will always use fewer eluting conditions than the ones determined in TLC in order to better use the properties of the solvents and the silica. It is important to know that the separation on the flash cartridge will be better than those in TLC because of the bed length and so, the efficiency of the cartridge compare to a TLC plate. With this in mind, we can propose the following formula in a first approximation to determine the conditions to apply in flash chromatography.

%TLC = % of the polar solvent used in TLC

Rf = Retention factor of the product of interest in TLC

%Flash = % of the polar solvent to be used in flash chromatography

CV = column volume in ml

F = flow rate in ml/min

Isocratic Mode

$$\%Flash = \%TLC / (8 \times Rf)$$

Example:

If your product in TLC is eluting with a $Rf = 0.2$ with 20% of polar solvent, the % of polar solvent to use in flash chromatography is: $\%Flash = 20 / (8 \times 0.2) = 12.5\%$. So, the use of 12–13% of polar solvent should result in a good separation in flash.

Gradient Mode

In a first time you can use the bi-exponential gradient below:

$$t = 0 \quad \%Flash = 0$$






$$t = 5CV/F \quad \%Flash = 0.2 \times \%TLC / Rf$$

$$t = 20CV/F \quad \%Flash = 100$$

Note : With methanol as eluent, the product might elute quite faster than expected on the TLC plate. It is recommended to divide by half the % of methanol after to have apply formula described above.

Related Products

Adapters

					
Material	PEEK	PEEK	PEEK	PEEK	PP
Thread	1/4\"-28 female to Luer Lock female	1/4\"-28 female to Luer Lock male	1/4\"-28 male to Luer female	1/4\"-28 male to Luer Lock male	Luer Lock female to Luer Lock female
Miscellaneous	Bore 1.3 mm	Bore 1.3 mm	Bore 1.5 mm	Bore 1.0 mm	Bore 0.4 mm
Part No.	220302	220304	220305	220308	220329
Qty.	ea.	ea.	ea.	ea.	pk. 10

More luer adapters at www.bgb-shop.com/luer-adapters

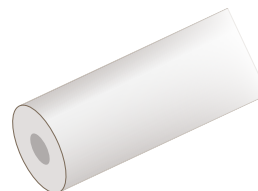
Nuts, Ferrules, Plugs and Caps

					
Type	Nut	Nut	Ferrule	Plug	Cap
Material	PEEK	PEEK	ETFE with SS Ring	POM	ETFE
Thread	1/4\"-28	1/4\"-28	-	1/4\"-28	1/4\"-28
Miscellaneous	Fingertight, Short	Fingertight, Long	8\" OD Tubing	-	-
Part No.	220344	220345	220353	220334	220341
Qty.	pk. 10	pk. 10	pk. 10	pk. 10	pk. 10

More fittings at www.bgb-shop.com/fittings





ETFE Tubing

Part No.	OD	ID	Color	Pressure	Qty.
211906-3	1/8"	1.59mm	natural	110bar	3m
211906-10	1/8"	1.59mm	natural	110bar	10m
211906-25	1/8"	1.59mm	natural	110bar	25m



More polymeric Tubings at www.bgb-shop.com/polymeric-tubing

HPLC-Certified Plastic Disposable Syringes

				
Volume	2 ml	5 ml	10 ml	20 ml
Connector	Luer Tip	Luer Tip	Luer Tip	Luer Tip
Part No.	PP-EWS-2L	PP-EWS-5L	PP-EWS-10L	PP-EWS-20L

Also available as Luer Lock Syringes www.bgb-shop.com/disposable-syringes

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