

Purification - Flash Chromatography

SuperFlash

Compound Purification Columns

- **Optimal Design**
Cost effective, high performance disposable flash column specifically designed for flash chromatography.
- **Excellent Separations**
Designed to deliver convenient, leak-free sharp peaked separations.
- **Wide Range of Sizes**
Over 16 column sizes in both normal and reversed phase.
- **Customizable**
Available in custom extended lengths and other sorbents.
- **Simple Connection**
Direct luer connect for simple attachment to any flash or prep system.

Benefit

- **Easily Connect SuperFlash to Any System**
SuperFlash columns can be directly connected to any Analogix system. Choose from a complete line of conversion kits to attach SuperFlash columns to any competitive instrument.
- **Reusable Reversed Phase Columns**
Columns filled with Septra C18 have the ability to be stored for long periods of time and reused with no loss in performance when stored properly.
- **Convenient Storage**
Flat packs keep stockrooms and drawers neatly organized.



Purification - Flash Chromatography

SuperFlash

Sepra Si 50 (50 μ)

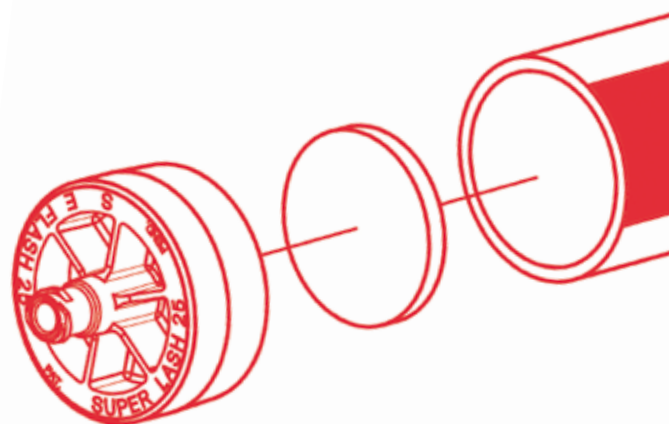
P/N	Description	Qty
SI50-4G/SF10	SF10-4g, Sepra Si 50	8/flat pack
SI50-8G/SF10	SF10-8g, Sepra Si 50	8/fpk
SI50-12G/SF15	SF15-12g, Sepra Si 50	7/fpk
SI50-24G/SF15	SF15-24g, Sepra Si 50	7/fpk
SI50-40G/SF25	SF25-40g, Sepra Si 50	6/fpk
SI50-60G/SF25	SF25-60g, Sepra Si 50	6/fpk
SI50-80G/SF25	SF25-80g, Sepra Si 50	6/fpk
SI50-120G/SF25	SF25-120g, Sepra Si 50	6/fpk
SI50-160G/SF25	SF25-160g, Sepra Si 50	6/fpk
SI50-80G/SF40	SF40-80g, Sepra Si 50	4/fpk
SI50-115G/SF40	SF40-115g, Sepra Si 50	4/fpk
SI50-150G/SF40	SF40-150g, Sepra Si 50	4/fpk
SI50-240G/SF40	SF40-240g, Sepra Si 50	4/fpk
SI50-200G/SF65	SF65-200g, Sepra Si 50	3/fpk
SI50-400G/SF65	SF65-400g, Sepra Si 50	3/fpk
SI50-600G/SF65	SF65-600g, Sepra Si 50	3/fpk

Sepra Si 35 (35 μ)

P/N	Description	Qty
SI35-4G/SF10	SF10-4g, Sepra Si 35	8/flat pack
SI35-8G/SF10	SF10-8g, Sepra Si 35	8/fpk
SI35-12G/SF15	SF15-12g, Sepra Si 35	7/fpk
SI35-24G/SF15	SF15-24g, Sepra Si 35	7/fpk
SI35-40G/SF25	SF25-40g, Sepra Si 35	6/fpk
SI35-60G/SF25	SF25-60g, Sepra Si 35	6/fpk
SI35-80G/SF25	SF25-80g, Sepra Si 35	6/fpk
SI35-120G/SF25	SF25-120g, Sepra Si 35	6/fpk
SI35-160G/SF25	SF25-160g, Sepra Si 35	6/fpk
SI35-80G/SF40	SF40-80g, Sepra Si 35	4/fpk
SI35-115G/SF40	SF40-115g, Sepra Si 35	4/fpk
SI35-150G/SF40	SF40-150g, Sepra Si 35	4/fpk
SI35-240G/SF40	SF40-240g, Sepra Si 35	4/fpk
SI35-200G/SF65	SF65-200g, Sepra Si 35	3/fpk
SI35-400G/SF65	SF65-400g, Sepra Si 35	3/fpk
SI35-600G/SF65	SF65-600g, Sepra Si 35	3/fpk

Sepra C18

P/N	Description	Qty
C18-5.5G/SF10	SF10-5.5g, Sepra C18	1/pack
C18-10G/SF10	SF10-10g, Sepra C18	1/pk
C18-16G/SF15	SF15-16g, Sepra C18	1/pk
C18-30G/SF15	SF15-30g, Sepra C18	1/pk
C18-55G/SF25	SF25-55g, Sepra C18	1/pk
C18-75G/SF25	SF25-75g, Sepra C18	1/pk
C18-100G/SF25	SF25-100g, Sepra C18	1/pk
C18-150G/SF25	SF25-150g, Sepra C18	1/pk
C18-200G/SF25	SF25-200g, Sepra C18	1/pk
C18-100G/SF40	SF40-100g, Sepra C18	1/pk
C18-150G/SF40	SF40-150g, Sepra C18	1/pk
C18-205G/SF40	SF40-205g, Sepra C18	1/pk
C18-300G/SF40	SF40-300g, Sepra C18	1/pk
C18-300G/SF65	SF65-300g, Sepra C18	1/pk
C18-540G/SF65	SF65-540g, Sepra C18	1/pk
C18-800G/SF65	SF65-800g, Sepra C18	1/pk



Purification - Flash Chromatography

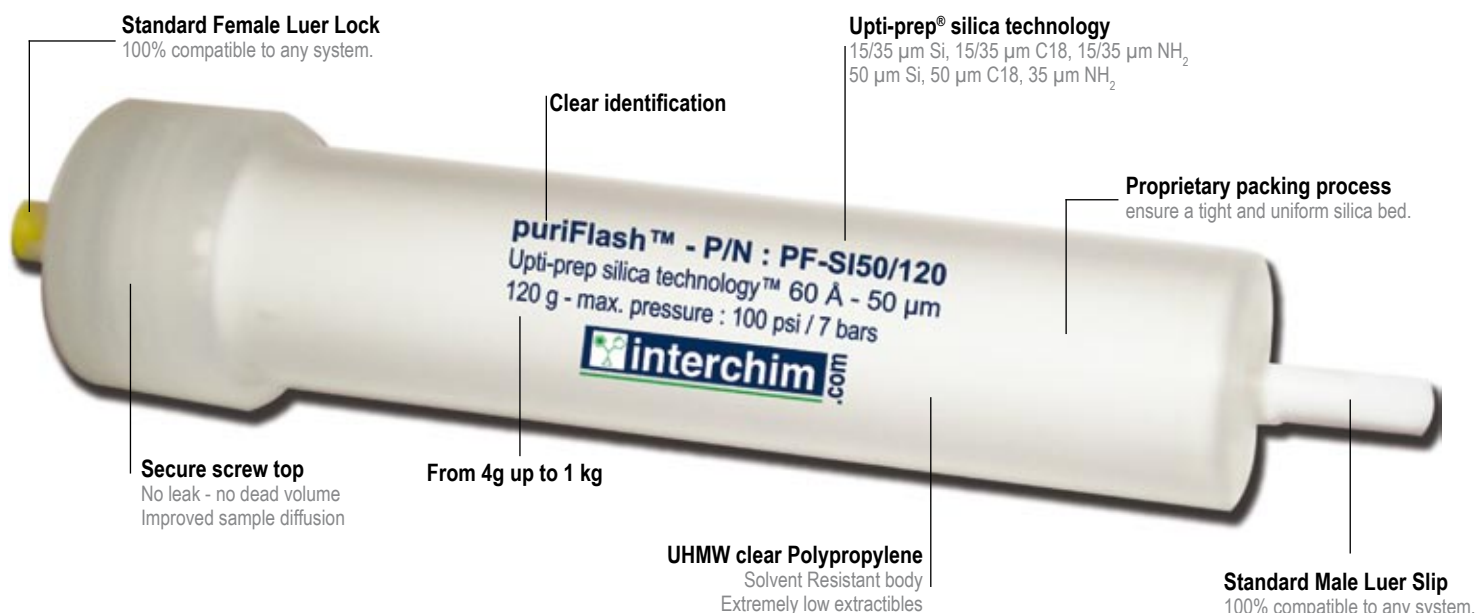
puriFlash™ Columns

Upti-prep® is Interchim's proprietary silica technology that is utilized within our range of Flash Chromatography columns, the Upti-prep® technology has been developed around rigorous, innovative manufacturing processes from the highest quality raw material. Every step of each synthesis is strictly controlled establishing particles that display extreme mechanical stability. Particle size, porosity & specific surface area exhibit reproducibility and clear definition, achieving a perfectly hydroxylated surface and cylindrical pores. Upti-prep® technology establishes major advantages that subsequently assist the separation process : a weaker surface energy compared to others silica (this ultimately facilitates narrow peaks with basic compound) and an homogeneous & dense bonding chemistry (this establishes very high loading capacities and stability).

Our puriFlash™ column hardware are precision engineered and provide distinct advantages compared to alternative hardware systems found on the market in terms of ease of use and column performance.

Column tubing & column packing : All columns have consistent and smooth internal surfaces to reduce issues of drag and maintain column efficiency. Efficiency is also managed through Interchim's state-of-the art proprietary packing processes - puriFlash™ columns are packed with an automated pressure system that contributing strongly to a good bed stability and column life time.

Sample dispersion : The loading of sample onto a flash column requires stringent management to establish quality purification. Column overloading results in a poor retention of pure fraction and therefore particular attention needs to be placed upon selecting the appropriate column dimension and the properties of the stationary phase. In addition, a careful control of the introduction of sample to the column is necessary to establish a homogeneous sample dispersion through the sorbent bead head. Poor sample loading will lead to overloading certain areas of the stationary phase whilst other areas will be underloaded. As well as a dramatic loss in capacity there will also be a high potential for the column head to clog. To prevent this problem Interchim's puriFlash columns are outfitted with a sample distributor. The sample distributor design maximizes the efficiency of sample volume dispersion and the sample mass introduced to the surface of the column head.



Purification - Flash Chromatography

puriFlash™ Columns

15/35 µm puriFlash™ columns

P/N	Description	Qty
PF-30SI/4G	puriFlash™ column - Upti-prep 15/35 µm silica	40
PF-30SI/4G	puriFlash™ column - Upti-prep 15/35 µm silica	480
PF-30SI/12G	puriFlash™ column - Upti-prep 15/35 µm silica	30
PF-30SI/12G	puriFlash™ column - Upti-prep 15/35 µm silica	360
PF-30SI/25G	puriFlash™ column - Upti-prep 15/35 µm silica	25
PF-30SI/25G	puriFlash™ column - Upti-prep 15/35 µm silica	300
PF-30SI/40G	puriFlash™ column - Upti-prep 15/35 µm silica	20
PF-30SI/40G	puriFlash™ column - Upti-prep 15/35 µm silica	240
PF-30SI/80G	puriFlash™ column - Upti-prep 15/35 µm silica	10
PF-30SI/80G	puriFlash™ column - Upti-prep 15/35 µm silica	80
PF-30SI/120G	puriFlash™ column - Upti-prep 15/35 µm silica	8
PF-30SI/120G	puriFlash™ column - Upti-prep 15/35 µm silica	64
PF-30SI/330G	puriFlash™ column - Upti-prep 15/35 µm silica	4
PF-30SI/330G	puriFlash™ column - Upti-prep 15/35 µm silica	32
PF-30C18/5.5G	puriFlash™ column - Upti-prep 15/35 µm C18	2
PF-30C18/16.5G	puriFlash™ column - Upti-prep 15/35 µm C18	1
PF-30C18/34.4G	puriFlash™ column - Upti-prep 15/35 µm C18	1
PF-30C18/55G	puriFlash™ column - Upti-prep 15/35 µm C18	1
PF-30C18/110G	puriFlash™ column - Upti-prep 15/35 µm C18	1
PF-30C18/165G	puriFlash™ column - Upti-prep 15/35 µm C18	1
PF-30C18/440G	puriFlash™ column - Upti-prep 15/35 µm C18	1
PF-30NH2/5.5G	puriFlash™ column - Upti-prep 15/35 µm NH2	2
PF-30NH2/16.5G	puriFlash™ column - Upti-prep 15/35 µm NH2	1
PF-30NH2/34.4G	puriFlash™ column - Upti-prep 15/35 µm NH2	1
PF-30NH2/55G	puriFlash™ column - Upti-prep 15/35 µm NH2	1
PF-30NH2/110G	puriFlash™ column - Upti-prep 15/35 µm NH2	1
PF-30NH2/165G	puriFlash™ column - Upti-prep 15/35 µm NH2	1
PF-30NH2/440G	puriFlash™ column - Upti-prep 15/35 µm NH2	1

50 µm puriFlash™ columns

P/N	Description	Qty
PF-50SI/4G	puriFlash™ column - Upti-prep 50 µm silica	40
PF-50SI/4G	puriFlash™ column - Upti-prep 50 µm silica	480
PF-50SI/12G	puriFlash™ column - Upti-prep 50 µm silica	30
PF-50SI/12G	puriFlash™ column - Upti-prep 50 µm silica	360
PF-50SI/25G	puriFlash™ column - Upti-prep 50 µm silica	25
PF-50SI/25G	puriFlash™ column - Upti-prep 50 µm silica	300
PF-50SI/40G	puriFlash™ column - Upti-prep 50 µm silica	20
PF-50SI/40G	puriFlash™ column - Upti-prep 50 µm silica	240
PF-50SI/80G	puriFlash™ column - Upti-prep 50 µm silica	10
PF-50SI/80G	puriFlash™ column - Upti-prep 50 µm silica	80
PF-50SI/120G	puriFlash™ column - Upti-prep 50 µm silica	8
PF-50SI/120G	puriFlash™ column - Upti-prep 50 µm silica	64
PF-50SI/330G	puriFlash™ column - Upti-prep 50 µm silica	4
PF-50SI/330G	puriFlash™ column - Upti-prep 50 µm silica	32
PF-50C18/5.5G	puriFlash™ column - Upti-prep 50 µm C18	2
PF-50C18/16.5G	puriFlash™ column - Upti-prep 50 µm C18	1
PF-50C18/34.4G	puriFlash™ column - Upti-prep 50 µm C18	1
PF-50C18/55G	puriFlash™ column - Upti-prep 50 µm C18	1
PF-50C18/110G	puriFlash™ column - Upti-prep 50 µm C18	1
PF-50C18/165G	puriFlash™ column - Upti-prep 50 µm C18	1
PF-50C18/440G	puriFlash™ column - Upti-prep 50 µm C18	1
PF-50NH2/5.5G	puriFlash™ column - Upti-prep 50 µm NH2	2
PF-50NH2/16.5G	puriFlash™ column - Upti-prep 50 µm NH2	1
PF-50NH2/34.4G	puriFlash™ column - Upti-prep 50 µm NH2	1
PF-50NH2/55G	puriFlash™ column - Upti-prep 50 µm NH2	1
PF-50NH2/110G	puriFlash™ column - Upti-prep 50 µm NH2	1
PF-50NH2/165G	puriFlash™ column - Upti-prep 50 µm NH2	1
PF-50NH2/440G	puriFlash™ column - Upti-prep 50 µm NH2	1



Purification - Flash Chromatography

Universal™ Columns

Universal™ Columns Disposable Polypropylene Column with High Throughput Purification Performance

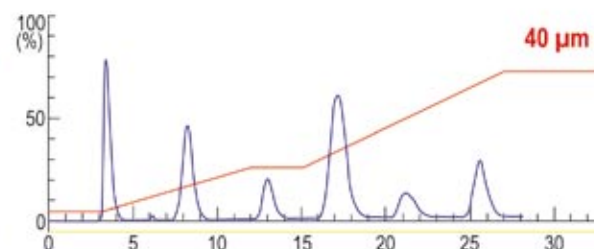
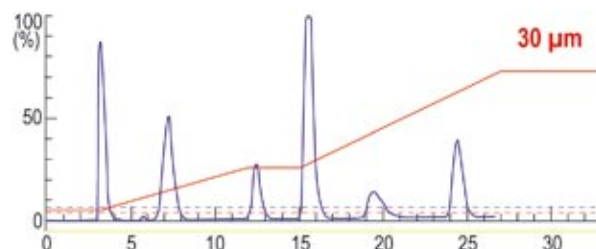
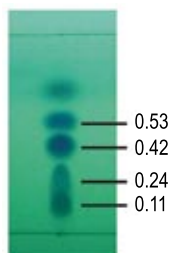
High Performance Flash Columns

Offering High Theoretical Plate Numbers to Ensure Better Separations



Universal Column Size : 2L **N=1000**
Size : L **N=800**

Universal Column Size : 2L **N=500**
Size : L **N=400**



Purification - Flash Chromatography

Universal™ Columns

Universal™ Columns Disposable Polypropylene Column with High Throughput Purification Performance

Disposable Columns Packed with High Performance Silica Gel

Luer Lock Type, Pore Size 60 Å, Particle Size 40µm

Size Code	Dimensions (cm) O.D. x Overall Length	Weight of Packed Material	P/N	Order Unit (Pieces)
SS	1.5 x 9.4	4g	UW001	
M	2.3 x 12.3	16g	UW002-01	10
			UW002-05	50
			UW002-25	250
			UW002-50	500
			UW002-11	1000
L	3.0 x 16.5	40g	UW003-01	10
			UW003-05	50
			UW003-25	250
			UW003-50	500
			UW003-11	1000
2L	3.0 x 20.4	55g	UW004-01	10
			UW004-05	50
			UW004-25	250
			UW004-50	500
			UW004-11	1000
4L	5.2 x 23.0	180g	UW005	
5L	6.4 x 24.0	300g	UW006-06	5
			UW006-01	10
			UW006-05	50
			UW006-25	250

Disposable Columns Packed with High Performance Silica Gel

Syringe Type, Pore Size 60 Å, Particle Size 40µm

Size Code	Dimensions (cm) O.D. x Overall Length	Weight of Packed Material	P/N	Order Unit (Pieces)
SS	1.5 x 9.4	4g	UV001	
M	2.3 x 11.4	12g	UV002-01	10
			UV002-05	50
			UV002-25	250
			UV002-50	500
			UV002-11	1000
L	3.0 x 17.0	40g	UV003-01	10
			UV003-05	50
			UV003-25	250
			UV003-50	500
			UV003-11	1000

Disposable Columns Packed with Premium Grade Silica Gel

Luer Lock Type, Pore Size 70 Å, Particle Size 30µm

Size Code	Dimensions (cm) O.D. x Overall Length	Weight of Packed Material	P/N	Order Unit (Pieces)
SS	1.5 x 9.4	4g	UW101	
M	2.3 x 12.3	16g	UW102-01	10
			UW102-05	50
			UW102-25	250
			UW102-50	500
			UW102-11	1000
L	3.0 x 16.5	40g	UW103-01	10
			UW103-05	50
			UW103-25	250
			UW103-50	500
			UW103-11	1000
2L	3.0 x 20.4	55g	UW104-01	10
			UW104-05	50
			UW104-25	250
			UW104-50	500
			UW104-11	1000
4L	5.2 x 23.0	180g	UW105	
5L	6.4 x 24.0	300g	UW106-06	5
			UW106-01	10
			UW106-05	50
			UW106-25	250

Disposable Columns Packed with Premium Grade Silica Gel

Syringe Type, Pore Size 70 Å, Particle Size 30µm

Size Code	Dimensions (cm) O.D. x Overall Length	Weight of Packed Material	P/N	Order Unit (Pieces)
SS	1.5 x 9.4	4g	UV101	
M	2.3 x 11.4	12g	UV102-01	10
			UV102-05	50
			UV102-25	250
			UV102-50	500
			UV102-11	1000
L	3.0 x 17.0	40g	UV103-01	10
			UV103-05	50
			UV103-25	250
			UV103-50	500
			UV103-11	1000

Purification - Flash Chromatography

Luknova™ Flash Columns

- Prepacked Flash Column™
- Solid Load Column™
- Solid Phase Extraction Columns
- High Purity Silica Gel



Reliability, Efficiency, Consistency

Purification - Flash Chromatography

Luknova™ Flash Columns

Prepacked Flash Columns

Proprietary Column Design

Luknova flash column body is designed by using our proprietary technology, comprising of :

- A perforated cap (1)
- A sealing insert (2)
- An inlet filter (3)
- An outlet filter (4)
- A column body (5).

Luknova prepacked flash columns are packed with high purity silica gel by using our proprietary technology, showing excellent purification and separation performance. The columns are compatible with all the purification systems.

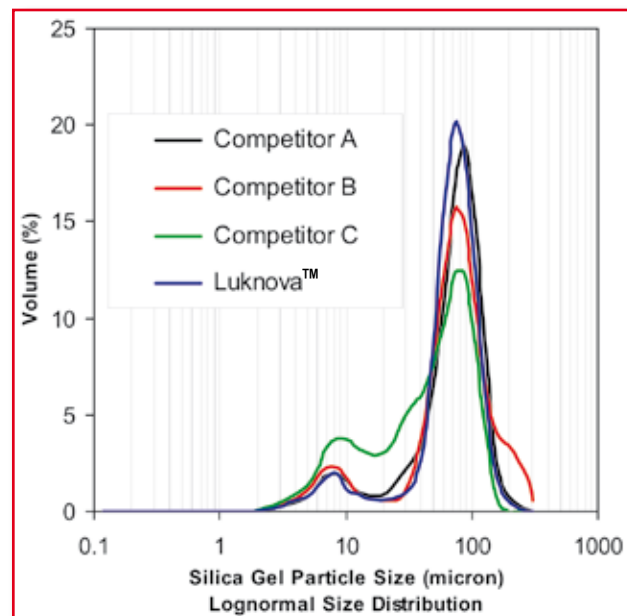
Quality Advantages

- Higher quality silica gel
- Non-disclosed uniform packing
- Novel column design



Purification Features

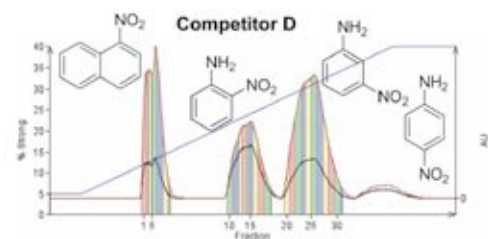
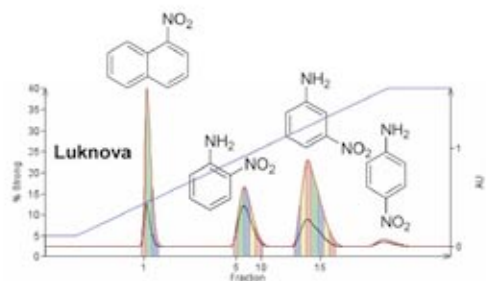
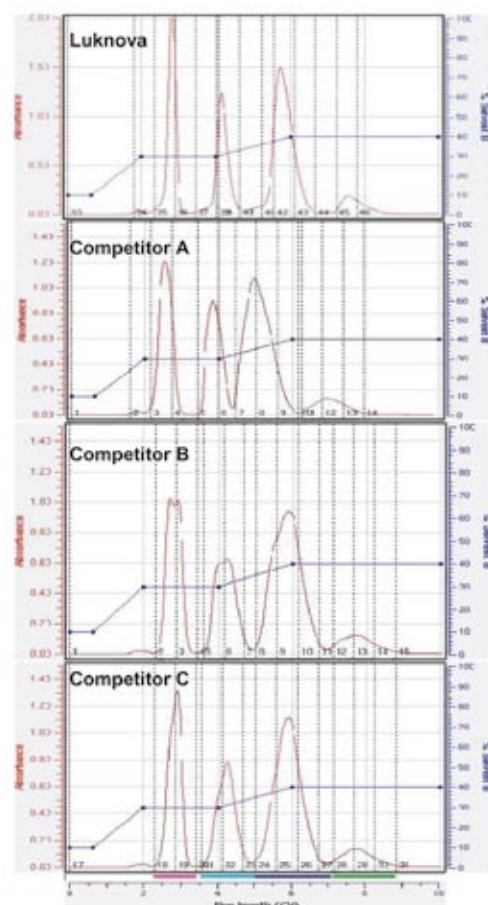
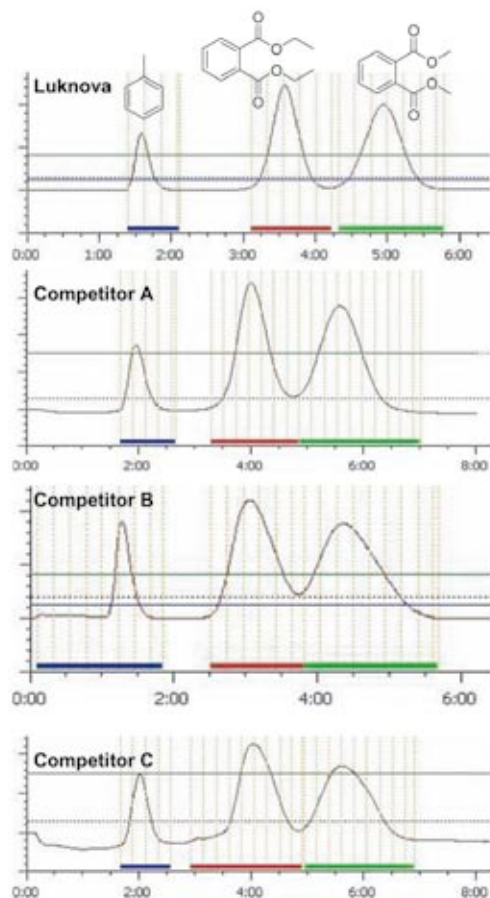
- Accurate Results
- Leak-free
- High yield
- No channeling
- No compound decomposition
- Quicker and more efficient
- Symmetric and sharper peaks
- No peak fronting and doubling
- Durable/easy to use design
- Reliable and consistent performance
- Compatible with all purification systems



Purification - Flash Chromatography

Luknova™ Flash Columns

Flash column performance comparison



Purification - Flash Chromatography

Luknova™ Flash Columns

Normal phase silica gel columns

SiO2, g	P/N	Description	Quantity
4	FC003004	Flash columns packed with 4g normal phase silica gel, pkg. of 40.	40/pkg.
4	FC003004-0	Flash columns packed with 4g normal phase silica gel, pkg. of 480.	480/pkg.
12	FC003012	Flash columns packed with 12g normal phase silica gel, pkg. of 30.	30/pkg.
12	FC003012-0	Flash columns packed with 12g normal phase silica gel, pkg. of 360.	360/pkg.
25	FC003025	Flash columns packed with 25g normal phase silica gel, pkg. of 25.	25/pkg.
25	FC003025-0	Flash columns packed with 25g normal phase silica gel, pkg. of 300.	300/pkg.
40	FC003040	Flash columns packed with 40g normal phase silica gel, pkg. of 20.	20/pkg.
40	FC003040-0	Flash columns packed with 40g normal phase silica gel, pkg. of 240.	240/pkg.
80	FC003080	Flash columns packed with 80g normal phase silica gel, pkg. of 10.	10/pkg.
80	FC003080-0	Flash columns packed with 80g normal phase silica gel, pkg. of 80.	80/pkg.
120	FC003120	Flash columns packed with 120g normal phase silica gel, pkg. of 8.	8/pkg.
120	FC003120-0	Flash columns packed with 120g normal phase silica gel, pkg. of 64.	64/pkg.
340	FC003340	Flash columns packed with 340g normal phase silica gel, pkg. of 4.	4/pkg.
340	FC003340-0	Flash columns packed with 340g normal phase silica gel, pkg. of 32.	32/pkg.



C18-functionalized silica (reverse phase) columns

Sorbent, g	P/N	Description	Quantity
5	FR005-1	C18-functionalized silica prepacked columns, 5.5g (C18), pkg. of 2.	2/pkg.
16	FR016-1	C18-functionalized silica prepacked columns, 16.5g (C18), pkg. of 1.	1/pkg.
34	FR034-1	C18-functionalized silica prepacked columns, 34.4g (C18), pkg. of 1.	1/pkg.
55	FR055-1	C18-functionalized silica prepacked columns, 55.0g (C18), pkg. of 1.	1/pkg.
110	FR110-1	C18-functionalized silica prepacked columns, 110g (C18), pkg. of 1.	1/pkg.
165	FR165-1	C18-functionalized silica prepacked columns, 165g (C18), pkg. of 1.	1/pkg.
440	FR440-1	C18-functionalized silica prepacked columns, 440g (C18), pkg. of 1.	1/pkg.

Amine-functionalized silica columns

Sorbent, g	P/N	Description	Quantity
5	FAM005-1	Amine-functionalized silica prepacked columns, 5.5g, pkg. of 2.	2/pkg.
16	FAM016-1	Amine-functionalized silica prepacked columns, 16.5g, pkg. of 1.	1/pkg.
34	FAM034-1	Amine-functionalized silica prepacked columns, 34.4g, pkg. of 1.	1/pkg.
55	FAM055-1	Amine-functionalized silica prepacked columns, 55.0g, pkg. of 1.	1/pkg.
110	FAM110-1	Amine-functionalized silica prepacked columns, 110g, pkg. of 1.	1/pkg.
165	FAM165-1	Amine-functionalized silica prepacked columns, 165g, pkg. of 1.	1/pkg.
440	FAM440-1	Amine-functionalized silica prepacked columns, 440g, pkg. of 1.	1/pkg.

Purification - Flash Chromatography

Luknova™ Flash Columns

Cyano-functionalized silica columns

Sorbent. g	P/N	Description	Quantity
5	FCY005-1	Cyano-functionalized silica prepacked columns, 5.5g, pkg. of 2.	2/pkg.
16	FCY016-1	Cyano-functionalized silica prepacked columns, 16.5g, pkg. of 1.	1/pkg.
34	FCY034-1	Cyano-functionalized silica prepacked columns, 34.4g, pkg. of 1.	1/pkg.
55	FCY055-1	Cyano-functionalized silica prepacked columns, 55.0, pkg. of 1.	1/pkg.
110	FCY110-1	Cyano-functionalized silica prepacked columns, 110g, pkg. of 1.	1/pkg.
165	FCY165-1	Cyano-functionalized silica prepacked columns, 165g, pkg. of 1.	1/pkg.
440	FCY450-1	Cyano-functionalized silica prepacked columns, 440g, pkg. of 1.	1/pkg.

Diol-functionalized silica columns

Sorbent. g	P/N	Description	Quantity
5	FDL005-1	Diol-functionalized silica prepacked columns, 5.5g, pkg. of 2.	2/pkg.
16	FDL016-1	Diol-functionalized silica prepacked columns, 16.5g, pkg. of 1.	1/pkg.
34	FDL034-1	Diol-functionalized silica prepacked columns, 34.4g, pkg. of 1.	1/pkg.
55	FDL055-1	Diol-functionalized silica prepacked columns, 55.0g, pkg. of 1.	1/pkg.
110	FDL110-1	Diol-functionalized silica prepacked columns, 110g, pkg. of 1.	1/pkg.
165	FDL165-1	Diol-functionalized silica prepacked columns, 165g, pkg. of 1.	1/pkg.
440	FDL440-1	Diol-functionalized silica prepacked columns, 440g, pkg. of 1.	1/pkg.

SAX-functionalized silica columns

Sorbent. g	P/N	Description	Quantity
5	FSA005-1	SAX-functionalized silica prepacked columns, 5.5g, pkg. of 2.	2/pkg.
16	FSA016-1	SAX-functionalized silica prepacked columns, 16.5g, pkg. of 1.	1/pkg.
34	FSA034-1	SAX-functionalized silica prepacked columns, 34.4g, pkg. of 1.	1/pkg.
55	FSA055-1	SAX-functionalized silica prepacked columns, 55.0, pkg. of 1.	1/pkg.
110	FSA110-1	SAX-functionalized silica prepacked columns, 110g, pkg. of 1.	1/pkg.
165	FSA165-1	SAX-functionalized silica prepacked columns, 165g, pkg. of 1.	1/pkg.
440	FSA440-1	SAX-functionalized silica prepacked columns, 440g, pkg. of 1.	1/pkg.

SCX-functionalized silica columns

Sorbent. g	P/N	Description	Quantity
5	FSC005-1	SCX-functionalized silica prepacked columns, 5.5g, pkg. of 2.	2/pkg.
16	FSC016-1	SCX-functionalized silica prepacked columns, 16.5g, pkg. of 1.	1/pkg.
34	FSC034-1	SCX-functionalized silica prepacked columns, 34.4g, pkg. of 1.	1/pkg.
55	FSC055-1	SCX-functionalized silica prepacked columns, 55.0g, pkg. of 1.	1/pkg.
110	FSC110-1	SCX-functionalized silica prepacked columns, 110g, pkg. of 1.	1/pkg.
165	FSC165-1	SCX-functionalized silica prepacked columns, 165g, pkg. of 1.	1/pkg.
440	FSC440-1	SCX-functionalized silica prepacked columns, 440g, pkg. of 1.	1/pkg.



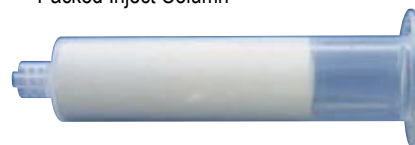
Purification - Flash Chromatography

Inject columns (sample loading column)

Inject Columns

Inject Column Size	I.D. x Packed Length	Overall Length
3S	10 x 30 mm	60 mm
2S	13 x 31 mm	60 mm
S	15 x 44 mm	85 mm
M	20 x 65 mm	95 mm
L	26 x 80 mm	135 mm
2L	26 x 150 mm	180 mm
3L	46 x 130 mm	160 mm

Packed Inject Column



Silica Gel Packed Inject Column

Column Size	To be used with	Qty	P/N
3S	Flash Column Size: S, M	20	W829-02
		50	W829-05
		100	W829-10
2S	Flash Column Size: S, M	20	W825-02
		50	W825-05
		100	W825-10
S	Flash Column Size: M, L, 2L	20	W826-02
		50	W826-05
		100	W826-10
M	Flash Column Size: L, 2L, 3L	20	W827-02
		50	W827-05
		100	W827-10
L	Flash Column Size: 3L	20	W828-02
		50	W828-05
		100	W828-10
2L	Flash Column Size: 3L, 4L, 5L	20	W830-02
		50	W830-05
		100	W830-10
3L	Flash Column Size: 4L, 5L	20	W831-02
		50	W831-05
		100	W831-10

Amino Packed Inject Column

Column Size	To be used with	Qty	P/N
3S	Flash Column Size: S, M	10	W899-01
		50	W899-05
		100	W899-10
2S	Flash Column Size: S, M	10	W895-01
		50	W895-05
		100	W825-10
S	Flash Column Size: M, L, 2L	10	W896-01
		50	W896-05
		100	W896-10
M	Flash Column Size: L, 2L, 3L	10	W897-01
		50	W897-05
		100	W897-10
L	Flash Column Size: 3L	10	W898-01
		50	W898-05
		100	W898-10

Purification - Flash Chromatography

PuriFlash™ cartridges



PuriFlash™-Series cartridges can replace glass columns efficiently. These columns are disposable, and pre-loaded with our proprietary technic "gradient Free Compression". We have 5 different cartridge sizes, for s, and the Biotage apparatus Flashmaster

Cartridge	FM-15	FM-25	FM-70	FM-70	FM-150	FM-150	FM-150
Dimensions L X D (cm)	3.6" x 0.7" 9 x 1.8	3.9" x 0.9" 9.9 x 2.3	6" x 1.2" 15.4 x 3	6" x 1.2" 15.4 x 3	6.8" x 1.6" 17 x 4	6.8" x 1.6" 17 x 4	6.8" x 1.6" 17 x 4
Bed Mass (g)	2	5	10	20	25	50	70
Sample Load $\Delta CV = 6^*$	50 - 100 mg	125 - 500 mg	250 - 500 mg	500 mg - 1 g	900 mg - 1.25 g	1.5 g - 2.5 g	2.5 g - 3.5 g
Sample Load $\Delta CV = 2^*$	10 - 50 mg	80 - 125 mg	125 - 250 mg	250 - 500 mg	500 - 900 mg	900 mg - 1.5 g	1.0 - 2.5 g
Sample Load $\Delta CV = 1^*$	2 - 10 mg	10 - 80 mg	50 - 125 mg	100 - 250 mg	250 - 500 mg	250 - 900 mg	250 mg - 1 g
Column Volume (mL)	15	25	70	70	150	150	150
Sorbent	Silice - C18 - C18U - C8 - NH2 - Diol - Alumina Acidic - Alumina Basic - Florisil - Alumina Neutral						
Packing Method	Gradient Free Compression						
Flow rate (mL/min)	5	5	15	15	50	50	50
Pressure (PSI)	100 PSI Maximum						
Bed Length (cm)	2.0	3.0	3.3	6.4	4.0	8.2	12.4
Bed Diameter (cm)	1.6	2.0	2.7	2.7	3.8	3.8	3.8
L/D Ratio	1.25	1.5	1.2	2.4	1.1	2.2	3.3
Cartridge Material	Polyethylene, low extractible, USP Class VI						
Fir Material	Polyethylene, low extractible						

* Sample Load Calculation : $\Delta CV = 1/R_1 - 1/R_2$

Purification - Flash Chromatography

PuriFlash™ cartridges

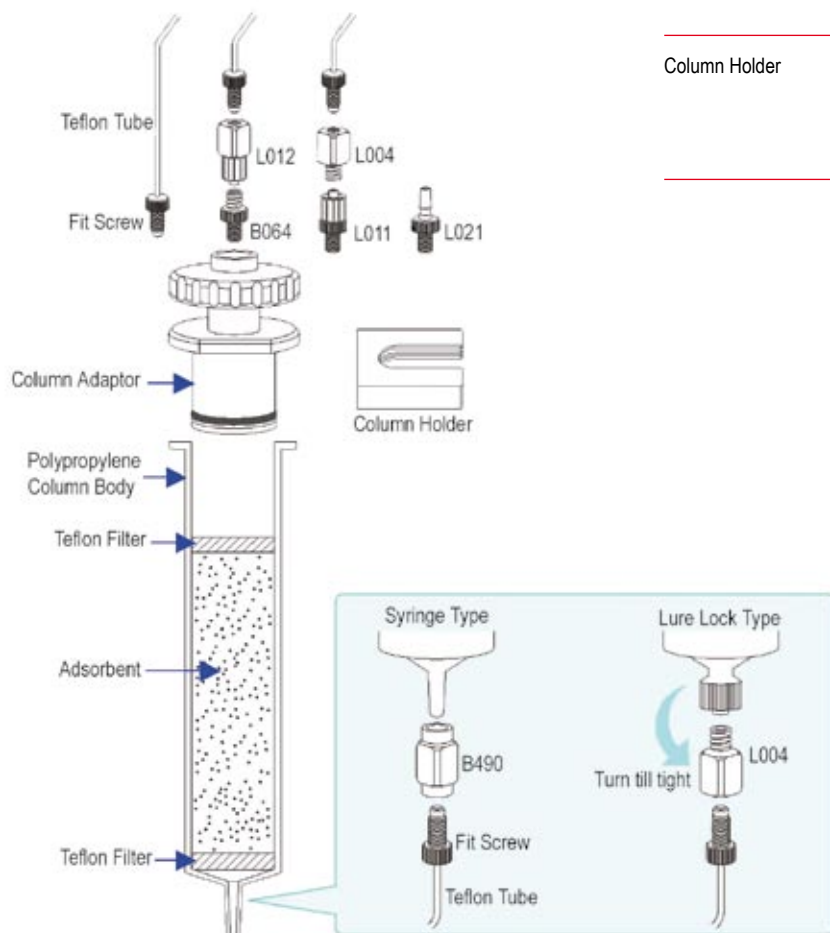
Particle Size	Nature	P/N	Qty/pk
2 g / 15 ml 15 - 35 µm	Silice 60Å	DC0160	12
	C18	DC0340	6
	C18U	DC1820	6
	C8	DC0580	6
	NH2	DC0760	6
	Diol	DC0940	6
50 µm	Silice 60Å	DC0220	12
	C18	DC0400	6
	C18U	DC1910	6
	C8	DC0640	6
	NH2	DC0820	6
	Diol	DC1000	6
	Alumine super I acide	DC1060	12
	super I neutre	DC1400	12
	super I basique	DC1230	12
	II - III	DC1570	12
5 g / 25 ml 15 - 35 µm	Silice 60Å	DC0180	12
	C18	DC0360	6
	C18U	DC1840	6
	C8	DC0600	6
	NH2	DC0780	6
	Diol	DC0960	6
50 µm	Silice 60Å	DC0240	12
	C18	DC0420	6
	C18U	DC1930	6
	C8	DC0660	6
	NH2	DC0840	6
	Diol	DC1020	6
	Alumine super I acide	DC1080	12
	super I neutre	DC1420	12
	super I basique	DC1250	12
	II - III	DC1590	12
10 g / 70 ml 15 - 35 µm	Silice 60Å	DC0200	12
	C18	DC0380	6
	C18U	DC1860	6
	C8	DC0620	6
	NH2	DC0800	6
	Diol	DC0980	6
50 µm	Silice 60Å	DC0260	12
	C18	DC0440	6
	C18U	DC1950	6
	C8	DC0680	6
	NH2	DC0860	6
	Diol	DC1040	6
	Alumine super I acide	DC1100	12
	super I neutre	DC1440	12
	super I basique	DC1270	12
	II - III	DC1610	12
20 g / 70 ml 15 - 35 µm	Silice 60Å	DC0210	12
	C18	DC0390	3
	C18U	DC1870	3
	C8	DC0630	3
	NH2	DC0810	3
	Diol	DC0990	3
50 µm	Silice 60Å	DC0270	12
	C18	DC0450	3
	C18U	DC1960	3
	C8	DC0690	3
	NH2	DC0870	3
	Diol	DC1050	3

Particle Size	Nature	P/N	Qty/pk
50 µm	Alumine super I acide	DC1110	12
	super I neutre	DC1450	12
	super I basique	DC1280	12
	II - III	DC1620	12
25 g / 150 ml 15 - 35 µm	Silice 60Å	DC2000	6
	C18	DC2060	3
	C18U	DC1880	3
	C8	DC2120	3
	NH2	DC2180	3
	Diol	DC2240	3
40 - 63 µm	Silice IR 60Å	DC0070	6
50 µm	Silice 60Å	DC2030	6
	C18	DC2090	3
	C18U	DC1970	3
	C8	DC2150	3
	NH2	DC2210	3
	Diol	DC2270	3
	Alumine super I acide	DC1120	6
	super I neutre	DC1460	6
	super I basique	DC1290	6
	II - III	DC1630	6
50 g / 150 ml 15 - 35 µm	Silice 60Å	DC2010	6
	C18	DC2070	1
	C18U	DC1890	1
	C8	DC2130	1
	NH2	DC2190	1
	Diol	DC2250	1
40 - 63 µm	Silice IR 60Å	DC0080	6
50 µm	Silice 60Å	DC2040	6
	C18	DC2100	1
	C18U	DC1980	1
	C8	DC2160	1
	NH2	DC2220	1
	Diol	DC2280	1
	Alumine super I acide	DC1130	6
	super I neutre	DC1470	6
	super I basique	DC1300	6
	II - III	DC1640	6
70 g / 150 ml 15 - 35 µm	Silice 60Å	DC2020	6
	C18	DC2080	1
	C18U	DC1900	1
	C8	DC2140	1
	NH2	DC2200	1
	Diol	DC2260	1
40 - 63 µm	Silice IR 60Å	DC0090	6
50 µm	Silice 60Å	DC2050	6
	C18	DC2110	1
	C18U	DC1990	1
	C8	DC2170	1
	NH2	DC2230	1
	Diol	DC2290	1
	Alumine super I acide	DC1140	6
	super I neutre	DC1480	6
	super I basique	DC1310	6
	II - III	DC1650	6

Purification - Flash Chromatography

Accessories and fittings

Assembly of Flash Column



Accessories for Flash Column

Product	P/N	
Column Adaptor	5L-C	
	5L	B090
	4L	B080
	3L	B070
	L, 2L	B060
	M	B062
	S	B061
Column Holder	5L, 5L-C	A991
	3L, 4L	A984
	L, 2L	A980
	M	A981
	S	A982

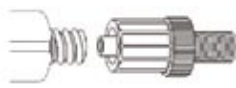
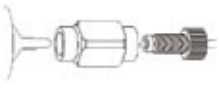


Installation Example

Purification - Flash Chromatography

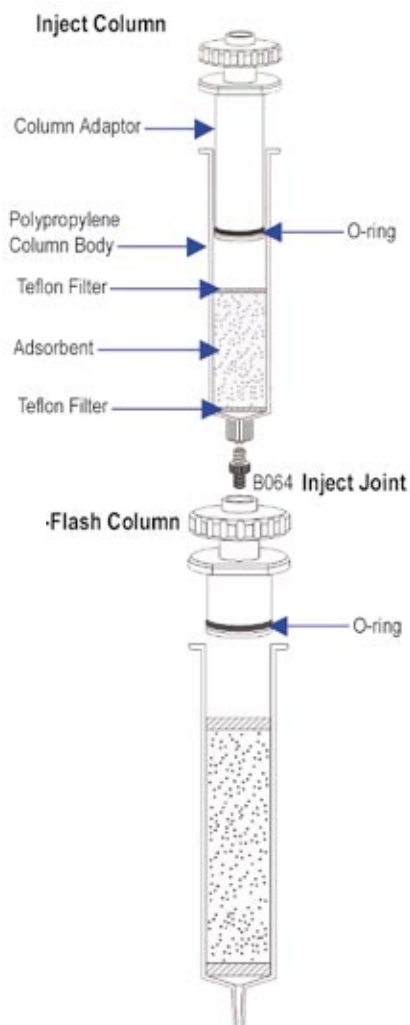
Accessories and fittings

Fitting for Flash Column

Product	Product No.	Use	
Column Rack Joint	L021		Connect to System Column Rack 1/4-28UNF
Inject Joint	B064		1/4-28UNF
Lure Lock Joint (Male)	L011		1/4-28UNF
Syringe Joint	B490		1/4-28UNF
Lure Lock Joint (Intermediate connector - Female)	L004		1/4-28UNF
Lure Lock Joint (Intermediate connector - Male)	L012		1/4-28UNF

Purification - Flash Chromatography

Accessories and fittings



Accessories for Inject Column

Product		Package Unit (pcs)	P/N
3S	Column Adaptor	1	B069
	Column Holder	1	A989
	Filter	100	W999-10
2S	Column Adaptor	1	B065
	Column Holder	1	A985
	Filter	100	W995-10
S	Column Adaptor	1	B066
	Column Holder	1	A986
	Filter	100	W996-10
M	Column Adaptor	1	B062
	Column Holder	1	A981
	Filter	100	W997-10
L, 2L	Column Adaptor	1	B068
	Column Holder	1	A988
	Filter	100	W998-10
3L	Column Adaptor	1	B070
	Column Holder	1	A984
	Filter	100	W994-10
Inject Joint (For All Sizes)		1	B064

Purification - Flash Chromatography

Accessories and fittings

O-ring for Column Adaptor

Used with	Package Unit (pcs)	P/N
Inject 3S	1	B048
Inject 2S	1	B049
Inject S	1	B050
Hi-Flash S	1	B053
Hi-Flash M, Inject M	1	B051
Hi-Flash L, 2L Inject L,2L	1	B052
Hi-Flash 3L	1	B054
Hi-Flash 4L	1	B055
Hi-Flash 5L	1	B056

Installation Example



Accessories



Column Adaptor



Inject Joint B064
For connecting to Hi-Flash column



Teflon Filter (for empty column)



Column Holder

Purification - Flash Chromatography

Ultra Pack™ Columns

The price and the efficiency of prepacked Silica gel and ODS columns, though the most frequently used ones for purification process in synthetic organic and natural product chemistry, have been a headache for all researchers.

To overcome these drawbacks, this Ultra Pack has been developed by excellent dry packing technology. Because of the low-cost, it becomes a disposable column after one dozens times of use.

This saves the times and troubles of packing work by dry tapping method.

It provides consistent high-resolution and repeatability due to excellent uniformity of absorbents.

To ensure high reproducibility of chromatography, all absorbents are made just as per the specifications and analyzed every production lot.



With slurry packing column (left-side of photo), the peak appears broad and tailing, indicating incomplete purification with poor purity and low recovery, and therefore low sample loading capacity.

On the contrary, the Ultra Pack (right of photo) shows very clear and good symmetric separation, and less tailing. This proves that Ultra Pack is high efficient column with excellent purification capability of large-scale samples.

On the other hand, the Ultra Pack (right of photo) shows very clear and good symmetric property separation, and less tailing. This proves Ultra Pack is high efficient column with excellent purification capability of large-scale samples.

Absorbent : Silica gel

Pore size : 60 Å

Sample Dye Mixture



Purification - Flash Chromatography

Ultra Pack™ Columns

Adsorbent and application of Ultra Pack™ column

Adsorbent	Application
Silica gel SiOH	Silica gel is applied to adsorption chromatography of compound with medium polarity due to its high adsorption capacity
Octadecyl/C18	For high polar and non polar compounds, staying at origin and developing at front with non-polar solvent such as hexane on silica gel TLC respectively, ODS works well. Depending on polarity of samples five types of ODS are available : standard, polarplus, lightload, widepore, and hydrophilic. For sugar hydrophilic ODS can be the best choice.
Octyl/C8	Due to milder adsorption capacity than ODS this resin fits for the separation of compound which sticks strongly to ODS. Endcapped and with 10% carbon content.
Phenyl/Ph	This resin has phenyl group as a ligand. Therefore it shows different interaction with compounds from ODS and Octyl. Endcapped and with 10% carbon content.
Diol/OH	Applicable in both organic and hydrophilic solvents. Suitable for chromatography of high polar or basic compounds.
Amino/NH ₂	On normal phase chromatography amino group functions as polar or weak anion exchange group. Useful in separation of basic compounds or sugar in acetonitrile/water.
Alumina/Al ₂ O ₃	There are three types of alumina : basic, neutral and acidic, useful for the chromatography of basic, unstable and acidic compounds, respectively.

Order Information
<Ultra Pack>

Column	I.D. x L (mm)
A	11 x 300
B	26 x 300
C	37 x 300
D	50 x 300
E	80 x 300



Silica GEL

Adsorbent	Particle Size(μm)	Pore Size (Å)	Column Size	Product NO.
Silica gel (SiOH)	40	60	A	Si-40A
	40	60	B	Si-40B
	40	60	C	Si-40C
	40	60	D	Si-40D
	40	60	E	Si-40E

Available in 1, 5 or 10 units packs

Purification - Flash Chromatography

Ultra Pack™ Columns

Chemically-Bonded Phase

Adsorbent	Type	Particle Size (µm)	Pore Size (Å)	Column Size	P/N
Octadecyl C18	Standard (End capped) Carbon Content 20%	50	120	A	ODS-S-50A
				B	ODS-S-50B
				C	ODS-S-50C
				D	ODS-S-50D
				E	ODS-S-50E
	Polarpoulus (Non-end capped) Carbon Content 16-17%	40	60	A	ODS-P-40A
				B	ODS-P-40B
				C	ODS-P-40C
				D	ODS-P-40D
	Light Load (Non-end capped) Carbon Content 12-13%	40	60	A	ODS-L-40A
				B	ODS-L-40B
				C	ODS-L-40C
				D	ODS-L-40D
	Wide Pore (End-capped) Carbon Content 18%	40	275	A	ODS-W-40A
				B	ODS-W-40B
				C	ODS-W-40C
				D	ODS-W-40D
	Hydrophilic (End Capped) Carbon Content 14%	40	120	A	ODS-A-40A
				B	ODS-A-40B
				C	ODS-A-40C
				D	ODS-A-40D
Adsorbent		Particle Size (µm)	Pore Size (Å)	Column Size	P/N
Octyl C8		40	60	A	C8-40A
				B	C8-40B
				C	C8-40C
				D	C8-40D
Diol OH		40	60	A	DIOL-40A
				B	DIOL-40B
				C	DIOL-40C
				D	DIOL-40D

Available in 1, 5 or 10 units packs

Adsorbent	Particle Size (µm)	Pore Size (Å)	Column Size	P/N
Cyano CN	40	60	A	CN-40A
			B	CN-40B
			C	CN-40C
			D	CN-40D
Amino NH2	40	60	A	NH-40A
			B	NH-40B
			C	NH-40C
			D	NH-40D

Alumina

Adsorbent	Particle Size (μm)	Pore Size (Å)	Column Size	P/N	
Alumina Al203	Neutral	40	60		
			A	AL-N-40A	
			B	AL-N-40B	
			C	AL-N-40C	
				D	AL-N-40D
	Acid	40	60	A	AL-A-40A
				B	AL-A-40B
				C	AL-A-40C
				D	AL-A-40D
	Alkali	40	60	A	AL-B-40A
				B	AL-B-40B
				C	AL-B-40C
D				AL-B-40D	

Available in 1, 5 or 10 units packs

Purification - Flash Chromatography

MM™ Columns (Empty Glass Column)

Price List for MM™ Column (Empty Glass Column)

- Pressure-proof (up to 20 kg per square cm)
- Eliminate dead space with simple Teflon inner screw, and easy dry packing of adsorbent without apparatus.
- Suitable for packing Chiral separation gel (20 μ m, 40 μ m). Silica gel (40 μ m), ODS (40 μ m)
- Column to include Teflon adapter with lock nut

P/N	Neck I.D. (mm)	Column I.D. (mm)	Length (mm)
MM-2020-	20	20	50 - 150
MM-2020-	20	20	Up to 300
MM-2020-	20	20	Up to 500
MM-2020-	20	20	Up to 1000
MM-2030-	20	30	50 - 150
MM-2030-	20	30	Up to 300
MM-2030-	20	30	Up to 500
MM-2030-	20	30	Up to 1000
MM-2040-	20	40	50 - 150
MM-2040-	20	40	Up to 300
MM-2040-	20	40	Up to 500
MM-2040-	20	40	Up to 1000
MM-2050-	20	50	50 - 150
MM-2050-	20	50	Up to 300
MM-2050-	20	50	Up to 500
MM-2050-	20	50	Up to 1000
MM-2060-	20	60	50 - 150
MM-2060-	20	60	Up to 300
MM-2060-	20	60	Up to 500
MM-2060-	20	60	Up to 1000
MM-2070-	20	70	50 - 150
MM-2070-	20	70	Up to 300
MM-2070 -	20	70	Up to 500
MM-2070-	20	70	Up to 1000
MM-2080-	20	80	Up to 300
MM-2080-	20	80	Up to 500
MM-2080-	20	80	Up to 1000



Purification - Flash Chromatography

BSR SimpliFlash

BSR SimpliFlash : Isocratic Pump Purifys Compounds Quickly and Safely

Modular

BSR can be used alone or with a fraction collector.

Simple

Easy to use, just set the flow rate and press run.

Safe

Many pumps have no overpressure safety; the BSR automatically disconnects at its maximum of 3.4 bar (50 psi).

Compatibility

Compatible with all normal and reversed phase chromatography solvents.

Fast

Typically purify 10mg–60g samples in 30 minutes.





Purification - Flash Chromatography

BSR SimpliFlash

Benefits

Compact

BSR SimpliFlash fits anywhere taking up minimal bench space.

Affordable

Semi-automated system for those on a limited budget or just starting out using prepacked columns.

Optimized Performance

Smooth, consistent flow yields better peak resolution, fewer mixed fractions, and more recovered compounds.

Convenient

Dispenses directly from a 4L bottle allowing scientist to monitor solvent usage.

Integrated

Fraction collector automatically starts and stops solvent flow.

Specifications

BSR

Power	Input 100–240VAC 47–63Hz 1.0A USA cord set (others available)
Weight	2.3lbs (1kg) 3.7lbs (1.6kg) with power supply
Dimensions H x D	33 x 8.3cm (13 x 3.25")
Pump	Valveless pulse-free
Motor	High quality brushless DC with closed loop regulated speed control
Flow Rate	100mL/min maximum
Pressure	3.4 bar (100 psi)
Fluid Contact Parts	316 stainless steel, PTFE, carbon
Fluid Connections	Inlet/outlet (¼-28 Flat Bottom Ports) accepts ⅜" OD PTFE tubing
Controls	Run/stop, speed (0–99%), prime, external remote run/ stop connector (cable available separately)

Fraction Collector 280

Dimensions H x W x D	27.6 x 33.7 x 29.5cm (10.88 x 13.25 x 11.63)
Fraction Tube Sizes	13, 16, 18, 25mm tube racks, 125mL bottles, scintillation vials, funnels
Rack Design	Stainless steel, split rack for extended run & offline tube changes

SimpliFlash Clamp Stand

Column Sizes	Clamps hold 4–600g SuperFlash columns
Solid Sample Capacity	5mg–33g using the DASi Sample Loading Module
Liquid Sample Injection	5–35mL, luer fitting on SuperFlash columns