



biocomma

biocomma[®] Sample Prep Parts

biocomma[®] sample prep parts are based on biocomma[®] frits and empty tubes, designed to offer innovative solutions for analysis & separation, purification of nucleic acids and proteins, synthesis of oligonucleotides and peptides, IVD specimen collection, helping customers commercialize laboratory research, accelerate product development process, and reduce total cost of production.



深圳逗点生物技术有限公司
BIOCOMMA LIMITED

Innovative Sample Preparation

www.biocomma.com



公司简介

Company profile

Biocomma Limited, founded in 2006, is a leading manufacturer of sample preparation, sample filtration and sample collection products, based on its two technology platforms of porous plastic filters and separation materials. Biocomma is ISO9001:2015 certificated and a National High and New Tech Enterprise.

Biocomma owns one filter manufacturing facility, two assembly facilities and one R & D center, supplying more than 1,500 products. For the past twelve years, we have served over 4,000 customers and provided OEM and customization services for dozens of well-known brands around the world.

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CommaVac™ Vacuum Manifolds

NEW



CommaVac™ Universal Vacuum Manifolds

Cat. #: 009803-B (sapphire blue), 009803-R (rose red)

- ⚡ Typical applications: nucleic acid purification, solid phase extraction, QuEChERS, protein precipitation, removal of matrix such as phospholipids.
- ⚡ Compatible with 48/96/384-well plates.
- ⚡ Come with abundant support documents for solutions and applications.
- ⚡ Work with oil free vacuum pump/water circulating vacuum pump.



CommaVac™ Double-layer Vacuum Manifolds

Cat. #: 009804-B (sapphire blue), 009804-R (rose red)

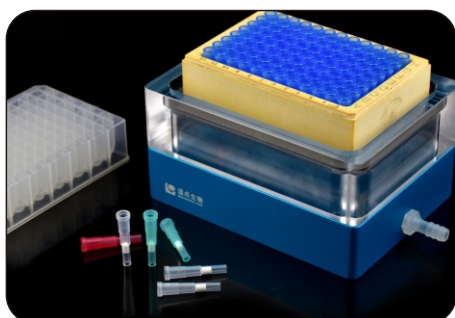
- ⚡ Typical application: nucleic acid purification, solid phase extraction, protein precipitation, removal of matrix such as phospholipids.
- ⚡ Double-layer design, enabling filtration and extraction at same time.
- ⚡ Come with abundant support documents for solutions and applications.
- ⚡ Work with oil free vacuum pump/water circulating vacuum pump.



CommaVac™ Luer-Inlet Vacuum Manifolds

Cat. #: 009805-B (sapphire blue), 009805-R (rose red)

- ⚡ Typical application: large-volume nucleic acid extraction.
- ⚡ Include connectors to avoid cross-contamination among samples.
- ⚡ Multiple columns can be easily manipulated in parallel.
- ⚡ Come with abundant support documents for solutions and applications.
- ⚡ Work with oil free vacuum pump/water circulating vacuum pump.



CommaVac™ Vacuum Manifolds for Oligo Synthesis

Cat. #: 009802-B (sapphire blue), 009802-R (rose red)

- ⚡ Applicable to de-blocking and final release steps of oligo synthesis.
- ⚡ Include base plates designed for 1.6 mL/2.2 mL collection plates.
- ⚡ Suitable for Biocomma's Embed™ oligo synthesis columns/96-well synthesis plates.
- ⚡ Work with oil free vacuum pump/water circulating vacuum pump.

Versatile and Flexible



Brands

biocomma[®] Frits and empty columns for laboratory solid-liquid separation.	Copure[®] Verified SPE cartridges and QuEChERS kits for sample preparation.	Embed[™] Oligo synthesis products powered by our CPG-PE sintered technology.	CommaXP[™] Columns and kits for purification of nucleic acids, proteins and antibodies.	H2OStop[®] Self-sealing filters for medical usage.
4Tip[™] Sintered PE filters for pipette tips.	SpinFlow[™] Parts for spin column-based nucleic acid purification.	Silibase[®] SPE cartridges specially optimized for large amount usage in third-party organizations.	CommaTip[™] Instruments and kits for IVD nucleic acid purification.	CommaVac[™] Vacuum manifolds for laboratory sample preparation.



Building Your Brand

Biocomma help you build your own SPE brands, based on our Copure[®] product line, as easy as printing a logo.





biocomma

Lab Frits & Filters

biocomma[®] lab frits & filters are made from high purity ultra-high molecule weight polyethylene (UHMW-PE), polypropylene (PP), polytetrafluoroethylene (PTFE) or other materials. Biocomma has developed proprietary technologies to manufacture sintered frits, which are widely used in many areas such as new drug discovery, life sciences, chemical analysis, sample preparation, gas detection.





UHMW-PE Frits

Introduction

biocomma® UHMW-PE Frits are made from high purity ultra-high molecule weight polyethylene (UHMW-PE).

Material Characteristics

Material

UHMW-PE is a polymeric material with molecular weight > 1,500,000 Da.

In addition to its superior resistance to mechanical impact, abrasion, low temperature and good self-lubrication, UHMW-PE has other outstanding properties such as:

- **Excellent resistance to corrosive chemicals**—It is resistant to many corrosive chemicals (acids, bases, salts) as well as numerous organic solvents.
- **Biocompatibility**—Due to its biological inertia and physiological compatibility, UHMW-PE has been approved by JHPA (Japan Hygiene Products Industry Association), US FDA (United States Food and Drug Administration) and USDA (United States Department of Agriculture) for direct contact with foods and drugs. There are successful attempts to use replacement components based on UHMW-PE as implants in human.
- **Excellent hydrophobicity**—It shows an extremely low moisture absorption (< 0.01%), much better than Nylon 66 (1%). It is the lowest moisture absorption material among engineering plastics.

Particle Size

In general, the particle of UHMW-PE is not a spherical structure, however it is very close to spherical shape. The more uniform the particle is, the better the sintered frits are.

Biocomma sets rigorous screening standards for raw materials and selects the pure UHMW-PE with uniform particle size distribution for our sintered frits.



Non-uniform particles

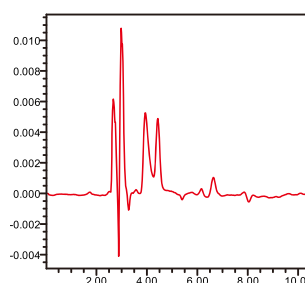
Uniform particles

Uniform and spherical particles

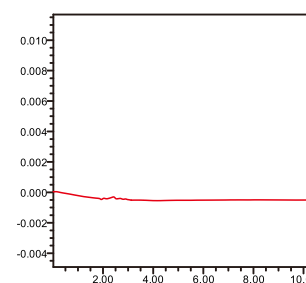
Purity

Biocomma uses highly pure and ultra-pure raw materials. Highly pure materials are selected by chromatography analysis, and ultra-pure materials are processed by reflux using several organic solvents.

Ultra-pure frits are widely used in highly sensitive chromatography analysis, such as solid phase extraction (SPE).



HPLC analysis of ordinary frits



HPLC analysis of ultra-pure frits

Specifications



Diameter

Sintered UHMW-PE frits are available in forms of disks and sheets. Diameters of disks range from 1.0-100 mm.

Thickness

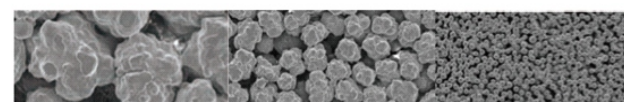
Frits are available with a broad range of thicknesses, including 1.2 mm, 1.6 mm, 2.5 mm, 3.2 mm, 3.5 mm, 4.0 mm, 5.0 mm, 6.0 mm, 7.0 mm, 9.0 mm.

The most commonly used thicknesses are 1.6 mm and 2.5 mm. The ultra-thin frits (1.2 mm) are best-in-class.

Pore Size

There are maze-like pores with an average pore size from 5-100 μm, including 5 μm, 10 μm, 20 μm, 50 μm, 80 μm, 100 μm.

The most commonly used pore sizes are 20 μm and 50 μm.



Pore size 80 μm

Pore size 20 μm

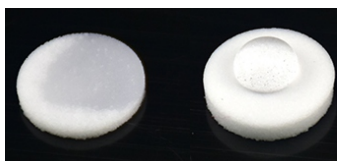
Pore size 3-5 μm

Properties

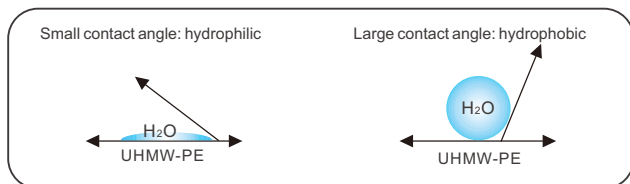
Hydrophobicity

Standard hydrophobic and hydrophilic formulations are available to your needs.

Our sintered UHMW-PE frits are natively hydrophobic, while hydrophilic frits are processed through surface modification. Compared with others, Biocomma's hydrophilic frits have some unique advantages such as low protein adsorption. It is not easy to form air bubbles inside the hydrophilic frits, otherwise air bubbles would reduce sample flowrate and influence the effect of purification.



Left: water could infiltrate hydrophilic frits
Right: water could not infiltrate hydrophobic frits



Flow Control

In order to deliver the best reproducibility from batch to batch, UHMW-PE frits are optimized in dimensions, porosity and air resistance. For example, by optimizing pore size, we manage to obtain flowrate of 1-2 drops per second, which is ideal for gravity-flow purification of proteins and nucleic acids.

DNase/RNase/PCR Inhibitor Free

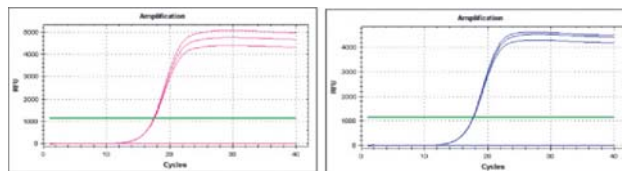
Biocomma provides UHMW-PE frits free of DNase/RNase/PCR inhibitor, and our strict technical standard and rigorous laboratories test ensure the frits have wide applications in biological labs, including PCR, DNA/RNA extraction and etc.

In the sensitive molecule biology applications, if the frits contain DNase/RNase, DNA/RNA would be degraded; if contain PCR inhibitor, PCR analysis would be affected.



M : PCR marker
1: Negative control
2: Sample
3: Positive control

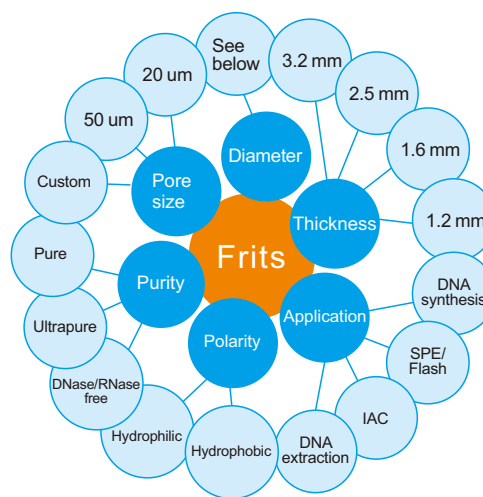
As we can see an obvious difference in the electropherogram, if there was RNase in the frits, the extracted RNA would be degraded and be unable to reverse transcript into full-length cDNA, which would result a remarkable decrease in the yield of PCR products.



qRT-PCR analysis shows CT difference between test (right) and control (left) is plus or minus two, which substantiates the frits free of PCR inhibitor.

Ordering Guidelines

Take into account sorbent, solvent and other factors depending on the application when selecting the frits. Here are some professional advices from Biocomma.



Materials

PE is one of the most commonly used polymers in the world, sintered UHMW-PE frits could meet general applications requirements in life science and chemistry analysis. For special applications, Biocomma provides other frits made from PP, PTFE, glass fibers, composite materials and etc.

Purity

biocomma® UHMW-PE Frits are all made from pure UHMW-PE. We recommend ultra-pure frits for highly sensitive chromatography analysis and DNase/RNase/PCR inhibitor free frits for molecule biology applications.



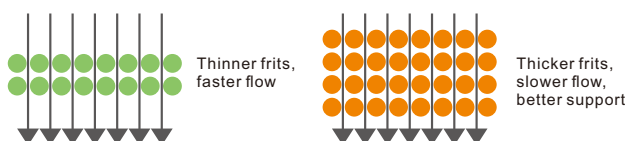


Diameter

Available in 1.0-100 mm, appropriate diameter sizes can be selected according to a certain application.

Thickness

In many applications, frits offer support for sorbent or medium. Generally, with larger thickness, frits could offer better support but result in slower flow rate. Therefore, it is necessary to optimize and balance the thickness and flow rate in practical needs.



Hydrophobicity

Hydrophobic frits are commonly used in applications involved organic solvents or gas, while hydrophilic frits are usually used in applications involved aqueous solutions.

Hydrophobic Frits

Sintered UHMW-PE frits are usually hydrophobic. As shown below, Biocomma provides various sizes:

Thickness: 1.2 mm (1/20"), 1.6 mm (1/16"), 2.5 mm (1/10"), 3.2 mm (1/8").

Pore size: 5 µm, 10 µm, 20 µm, 50 µm, 80 µm.
Diameter: please refer to order information.

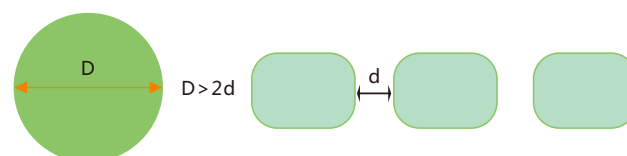
If these standard sizes do not meet your needs, custom sizes can be ordered.

Order information:

Cat. #	Diameter (mm)	Thickness (mm)	Pore Size (µm)	Qty.
BF014-12-20	1.4	1.2	20	1000/PK
BF021-16-20	2.1	1.6	20	1000/PK
BF025-16-20	2.5	1.6	20	1000/PK
BF025-25-20	2.5	2.5	20	1000/PK
BF025-25-50	2.5	2.5	50	1000/PK
BF025-40-50	2.5	4.0	50	1000/PK
BF041-16-20	4.1	1.6	20	1000/PK
BF041-25-20	4.1	2.5	20	1000/PK
BF041-32-80	4.1	3.2	80	1000/PK
BF046-16-20	4.6	1.6	20	1000/PK
BF047-16-20	4.7	1.6	20	1000/PK
BF048-32-05	4.8	3.2	5	1000/PK
BF049-16-20	4.9	1.6	20	1000/PK
BF058-16-20	5.8	1.6	20	1000/PK

Pore size

It is suggested that pore size of frits should be less than 1/2 of particle size of sorbent or medium. For example, if the particle size of a sorbent is more than 40 µm, it is strongly recommended to use frits of 20 µm.



Application

biocomma® UHMW-PE Frits are optimized for use in separation, chromatography, SPE, affinity chromatography and DNA/RNA purification/extraction, solid phase synthesis applications.



Cat. #	Diameter (mm)	Thickness (mm)	Pore Size (µm)	Qty.
BF058-16-50	5.8	1.6	50	1000/PK
BF060-16-20	6.0	1.6	20	1000/PK
BF064-32-10	6.4	3.2	10	1000/PK
BF066-12-20	6.6	1.2	20	1000/PK
BF066-16-02	6.6	1.6	2	1000/PK
BF066-16-20	6.6	1.6	20	1000/PK
BF066-16-50	6.6	1.6	50	1000/PK
BF066-25-20	6.6	2.5	20	1000/PK
BF066-32-10	6.6	3.2	10	1000/PK
BF070-16-02	7.0	1.6	2	1000/PK
BF070-16-20	7.0	1.6	20	1000/PK
BF071-16-02	7.1	1.6	2	1000/PK
BF072-16-02	7.2	1.6	2	1000/PK
BF072-16-20	7.2	1.6	20	1000/PK



Cat. #	Diameter (mm)	Thickness (mm)	Pore Size (µm)	Qty.
BF074-16-05	7.4	1.6	5	1000/PK
BF074-16-20	7.4	1.6	20	1000/PK
BF080-16-50	8.0	1.6	50	1000/PK
BF083-16-20	8.3	1.6	20	1000/PK
BF086-16-20	8.6	1.6	20	1000/PK
BF086-16-50	8.6	1.6	50	1000/PK
BF088-16-50	8.8	1.6	50	1000/PK
BF090-16-05	9.0	1.6	5	1000/PK
BF090-16-10	9.0	1.6	10	1000/PK
BF090-16-20	9.0	1.6	20	1000/PK
BF090-16-50	9.0	1.6	50	1000/PK
BF090-16-80	9.0	1.6	80	1000/PK
BF090-25-20	9.0	2.5	20	1000/PK
BF091-16-20	9.1	1.6	20	1000/PK
BF091-16-50	9.1	1.6	50	1000/PK
BF091-25-20	9.1	2.5	20	1000/PK
BF093-16-20	9.3	1.6	20	1000/PK
BF093-25-20	9.3	2.5	20	1000/PK
BF101-16-20	10.1	1.6	20	1000/PK
BF101-25-20	10.1	2.5	20	1000/PK
BF105-16-20	10.5	1.6	20	1000/PK
BF110-16-20	11.0	1.6	20	1000/PK
BF110-25-20	11.0	2.5	20	1000/PK
BF122-16-20	12.2	1.6	20	1000/PK
BF124-25-20	12.4	2.5	20	1000/PK
BF125-16-50	12.5	1.6	50	1000/PK
BF127-16-50	12.7	1.6	50	1000/PK
BF127-25-20	12.7	2.5	20	1000/PK
BF130-16-10	13.0	1.6	10	1000/PK
BF130-16-20	13.0	1.6	20	1000/PK
BF130-16-50	13.0	1.6	50	1000/PK
BF130-25-05	13.0	2.5	5	1000/PK
BF130-25-10	13.0	2.5	10	1000/PK
BF130-25-20	13.0	2.5	20	1000/PK
BF130-25-50	13.0	2.5	50	1000/PK
BF132-16-20	13.2	1.6	20	1000/PK
BF142-16-20	14.2	1.6	20	1000/PK
BF151-16-50	15.1	1.6	50	1000/PK
BF151-25-20	15.1	2.5	20	1000/PK
BF159-25-20	15.9	2.5	20	1000/PK
BF162-25-20	16.2	2.5	20	1000/PK
BF193-25-20	19.3	2.5	20	1000/PK

Cat. #	Diameter (mm)	Thickness (mm)	Pore Size (µm)	Qty.
BF196-32-10	19.6	3.2	10	1000/PK
BF196-35-10	19.6	3.5	10	1000/PK
BF197-16-20	19.7	1.6	20	1000/PK
BF197-25-20	19.7	2.5	20	1000/PK
BF221-25-20	22.1	2.5	20	1000/PK
BF228-16-50	22.8	1.6	50	1000/PK
BF228-25-20	22.8	2.5	20	1000/PK
BF236-16-20	23.6	1.6	20	1000/PK
BF236-25-20	23.6	2.5	20	1000/PK
BF240-25-20	24.0	2.5	20	1000/PK
BF264-25-20	26.4	2.5	20	1000/PK
BF273-32-05	27.3	3.2	5	1000/PK
BF291-16-20	29.1	1.6	20	1000/PK
BF292-16-20	29.2	1.6	20	1000/PK
BF292-16-50	29.2	1.6	50	1000/PK
BF293-16-20	29.3	1.6	20	1000/PK
BF293-16-50	29.3	1.6	50	1000/PK
BF293-16-80	29.3	1.6	80	1000/PK
BF296-25-20	29.6	2.5	20	1000/PK
BF380-25-20	38.0	2.5	20	1000/PK
BF495-16-50	49.5	1.6	50	1000/PK
BF495-25-20	49.5	2.5	20	1000/PK
BF510-25-20	51.0	2.5	20	1000/PK
Custom frits				



Copure® SPE Cartridges

Copure® represents the quality of our SPE cartridges, acting as quality criteria of our SPE OEM services.



Hydrophilic Frits

Hydrophilic frits are processed through surface modification of hydrophobic frits.

As shown below, Biocomma provides various sizes:
 Thickness: 1.2 mm (1/20"), 1.6 mm (1/16"), 2.5 mm (1/10").
 Pore size: 20 µm, 50 µm.
 Diameter: please refer to order information.

If these standard sizes do not meet your needs, custom sizes can be ordered.



Order information:

Cat. #	Diameter (mm)	Thickness (mm)	Pore Size (µm)	Qty.
LF014-12-20	1.4	1.2	20	1000/PK
LF016-16-50	1.6	1.6	50	1000/PK
LF025-16-50	2.5	1.6	50	1000/PK
LF040-16-50	4.0	1.6	50	1000/PK
LF048-32-05	4.8	3.2	5	1000/PK
LF058-16-50	5.8	1.6	50	1000/PK
LF066-16-02	6.6	1.6	2	1000/PK
LF066-16-50	6.6	1.6	50	1000/PK
LF072-16-50	7.2	1.6	50	1000/PK
LF074-16-20	7.4	1.6	20	1000/PK
LF074-16-50	7.4	1.6	50	1000/PK
LF080-16-50	8.0	1.6	50	1000/PK
LF090-16-50	9.0	1.6	50	1000/PK
LF091-16-50	9.1	1.6	50	1000/PK
LF093-16-50	9.3	1.6	50	1000/PK
LF125-16-50	12.5	1.6	50	1000/PK
LF127-16-50	12.7	1.6	50	1000/PK
LF130-16-50	13.0	1.6	50	1000/PK
LF151-16-50	15.1	1.6	50	1000/PK
LF197-16-50	19.7	1.6	50	1000/PK
LF228-16-50	22.8	1.6	50	1000/PK
LF236-16-50	23.6	1.6	50	1000/PK
LF273-25-50	27.3	2.5	50	1000/PK
LF292-16-50	29.2	1.6	50	1000/PK
LF296-25-50	29.6	2.5	50	1000/PK
LF495-16-50	49.5	1.6	50	1000/PK
LF510-16-50	51.0	1.6	50	1000/PK
Custom frits				



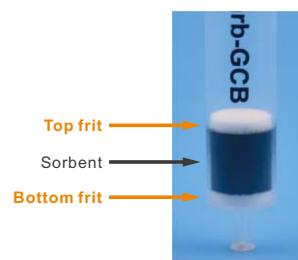
Frits for Solid Phase Extraction (SPE) Cartridges

Frits, used in commercially available SPE cartridges and/or 96-well SPE plates, immobilize sorbents and combine to optimize flow as separating and retaining sample analytes.

biocomma® frits for solid phase extraction (SPE) cartridges are Biocomma's innovation to SPE industry. Optimized in purity, flowrate control, stability and chemical resistance, frits for SPE cartridges have proven to fit and function in various SPE cartridges or multi well plates.

Features:

- Frits are made from ultra-pure UHMW-PE, suitable for highly sensitive analysis
- Optimized uniform flowrate design is in favor of parallel SPE processes
- Ultra-thin frits (as thin as 1.2 mm) could compartmentalize sorbent layers in mixed SPE
- Optimize pore sizes from 10 µm to 100 µm for different applications



Order information:

Cat. #	Diameter (mm)	Thickness (mm)	Pore Size (µm)	Usage	Qty.
SPEF058-16-20-1	5.8	1.6	20	1 mL Cartridges	1000/PK
SPEF090-16-20-1	9.0	1.6	20	3 mL Cartridges	1000/PK
SPEF090-25-20-1	9.0	2.5	20	3 mL Cartridges	1000/PK
SPEF091-16-20-1	9.1	1.6	20	3 mL Cartridges	1000/PK
SPEF091-25-20-1	9.1	2.5	20	3 mL Cartridges	1000/PK
SPEF130-12-20-1	13.0	1.2	20	6 mL Cartridges	1000/PK
SPEF130-16-20-1	13.0	1.6	20	6 mL Cartridges	1000/PK
SPEF130-25-20-1	13.0	2.5	20	6 mL Cartridges	1000/PK
SPEF158-25-20-1	15.8	2.5	20	12 mL Cartridges	1000/PK
SPEF197-25-20-1	19.7	2.5	20	20 mL Cartridges	1000/PK
SPEF236-25-20-1	23.6	2.5	20	30 mL Cartridges	1000/PK
SPEF266-25-20-1	26.6	2.5	20	60 mL Cartridges	1000/PK
SPEF495-25-20-1	49.5	2.5	20	300 mL Cartridges	1000/PK
SPEF066-16-20-1	6.6	1.6	20	1.0 mL 96-Well Plates	1000/PK
SPEF070-16-20-1	7.0	1.6	20	1.5 mL 96-Well Plates	1000/PK
SPEF083-16-20-1	8.3	1.6	20	1.5 mL 96-Well Plates	1000/PK

Custom frits

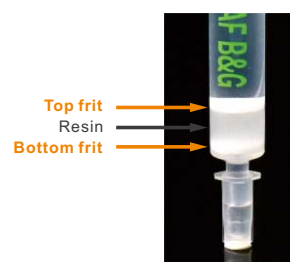


Frits for Affinity Chromatography (AC) Columns

Frits, used in affinity chromatography columns, hold the medium in place and help protect the medium from running dry under buffer flow.

biocomma® frits for affinity chromatography (AC) columns are made from uniform and pure UHMW-PE and have excellent hydrophilicity through surface modification.

Optimized in pore size, flowrate control and chemical resistance, frits for AC columns are designed to desalt and purify peptides, proteins, antibodies, oligonucleotides, and mycotoxins.



Features:

- Excellent hydrophilicity through special processing
- Optimized uniform flowrate at 1-2 mL/min under gravity flow
- Quality is guaranteed with strict criteria of quality

Order information:

Cat. #	Diameter (mm)	Thickness (mm)	Pore Size (μm)	Usage	Qty.
ACF058-16-50	5.8	1.6	50	1 mL Columns	1000/PK
ACF090-16-50	9.0	1.6	50	3 mL Columns	1000/PK
ACF091-16-50	9.1	1.6	50	3 mL Columns	1000/PK
ACF130-16-50	13.0	1.6	50	6 mL Columns	1000/PK
ACF158-16-50	15.8	1.6	50	12 mL Columns	1000/PK
ACF228-16-50	22.8	1.6	50	30 mL Columns	1000/PK
ACF266-16-50	26.6	1.6	50	60 mL Columns	1000/PK
ACF495-16-50	49.5	1.6	50	300 mL Columns	1000/PK
Custom frits					



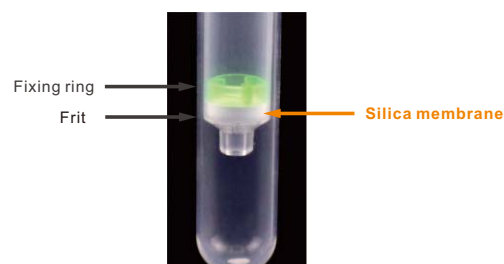
Frits for Nucleic Acid Purification Spin Columns

Frits, used in nucleic acid purification spin columns, hold the resin in place or support silica membrane.

biocomma® frits for nucleic acid purification spin columns are made from uniform and pure UHMW-PE and are DNase/RNase/PCR inhibitor free. Available in various sizes to meet the application needs of nucleic acid extraction or purification.

Features:

- DNase/RNase/PCR inhibitor free
- Available in hydrophobic or hydrophilic formulations
- Ultra-thin frits (as thin as 1.2 mm) could support silica membrane and withstand high-speed centrifugation
- Hydrophobic frits are commonly used in solid-liquid phase separation (bacterial lysate separation) with pressure



Order information:

Cat. #	Diameter (mm)	Thickness (mm)	Pore Size (μm)	Usage	Qty.
DNAF051-16-20	5.1	1.6	20	2 mL Spin Columns	1000/PK
DNAF072-12-20	7.2	1.2	20	2 mL Spin Columns	1000/PK
DNAF072-16-20	7.2	1.6	20	2 mL Spin Columns	1000/PK
DNAF074-12-20	7.4	1.2	20	2 mL Spin Columns	1000/PK
DNAF074-16-20	7.4	1.6	20	2 mL Spin Columns	1000/PK
DNAF110-16-20	11.0	1.6	20	15 mL Spin Columns	1000/PK
DNAF240-25-20	24.0	2.5	20	50 mL Spin Columns	1000/PK
DNAF197-16-50	19.7	1.6	50	20 mL Filtration Cartridges	1000/PK
DNAF236-16-50	23.6	1.6	50	30 mL Filtration Cartridges	1000/PK
DNAF266-16-50	26.6	1.6	50	60 mL Filtration Cartridges	1000/PK
DNAF495-16-50	49.5	1.6	50	300 mL Filtration Cartridges	1000/PK
DNAF070-16-20	7.0	1.6	20	1.0 mL 96-Well Plates	1000/PK
DNAF083-16-20	8.3	1.6	20	1.5 mL 96-Well Plates	1000/PK
DNAF021-16-20	2.1	1.6	20	1.5 mL 384-Well Plates	1000/PK

Custom frits



Frits for Oligo Synthesis Columns

Frits, used in Oligo Synthesis Columns, prevent the expensive CPG particles from leaking.

biocomma® frits for oligo synthesis columns are made from uniform and pure UHMW-PE. Optimize the pore size to ensure that CPG particles and synthesis reagents are mixed thoroughly.



Order information:

Cat. #	Diameter (mm)	Thickness (mm)	Pore Size (μm)	Qty.
DSF025-25-20	2.5	2.5	20	1000/PK
DSF041-25-80	4.1	2.5	80	1000/PK
DSF090-25-20	9.0	2.5	20	1000/PK
DSF090-25-80	9.0	2.5	80	1000/PK
DSF130-25-20	13.0	2.5	20	1000/PK
DSF130-25-80	13.0	2.5	80	1000/PK
Custom frits				

Frits for SPPS Reactors

Solid phase peptide synthesis (SPPS), has been widely applied in pharmaceutical industry. In this method, the extension of peptide is proceeding on insoluble polystyrene resin support.

biocomma® frits for solid phase peptide synthesis (SPPS) reactors are made from uniform and pure UHMW-PE. Optimized in purity, pore size, stability and chemical resistance, frits for SPPS reactors have proven to fit and function in various SPPS reactors. Furthermore, custom sizes can be ordered to meet your needs.



Order information:

Cat. #	Diameter (mm)	Thickness (mm)	Pore Size (μm)	Qty.
DSF090-25-20	9.0	2.5	20	1000/PK
DSF090-25-80	9.0	2.5	80	1000/PK
DSF130-25-20	13.0	2.5	20	1000/PK
DSF130-25-80	13.0	2.5	80	1000/PK
Custom frits				



Porosity
>40%

4Tip™ Pro Filters for Pipette Tips

4Tip™ pro filters for pipette tips are made from UHMW-PE via Biocomma's proprietary high-porosity miniature filter sintering technology, suitable for applications in automated liquid handling systems.

Features:

Porosity range 40% - 45%, very low air resistance
Suitable for automated liquid handling systems

Order information:

4Tip™ Pro Filters for Pipette Tips are customizable. Please contact Biocomma for further information.





4Tip™ Filters for Pipette Tips

4Tip™ filters for pipette tips are made from pure ultra-high molecular weight polyethylene (UHMW-PE) and processed via Biocomma's proprietary technologies. With superb hydrophobicity, 4Tip™ filters for pipette tips offer ideal barrier against aerosols in liquid handling to protect samples from potential cross-contamination and improve the results reliability of analysis.

Features:

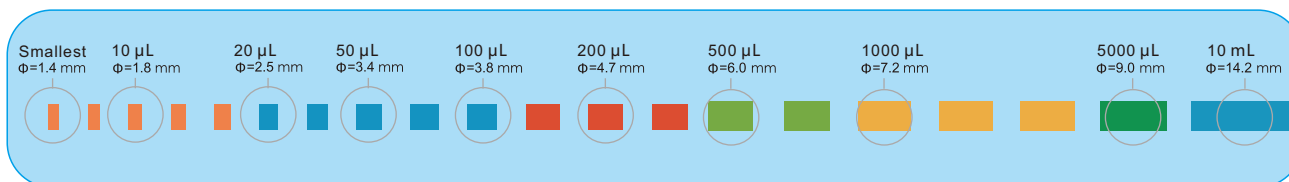
- Filters are available for tip volumes: 10 µL, 20 µL, 100 µL, 200 µL, 1000 µL, etc.
- DNase/RNase/PCR inhibitor/pyrogen-free
- Optimized pore sizes for easier pipetting and dispensing
- Rigorous dimension tolerance control: ±0.03 mm for diameters, < 0.1 mm for thickness
- Appropriate elasticity for better match to the inner diameter of tips
- Unique design for demands of automated assembly
- No flashes/impurities to meet stringent requirements in appearance

Order information:

Cat. #	D (mm)	T (mm)	P (µm)	Usage	Qty.
F10-14-16	1.4	1.6	10	10 µL Tip	10000/PK
F10-16-35	1.6	3.5	10	10 µL Tip	10000/PK
F10-18-35	1.8	3.5	10	10 µL Tip	10000/PK
F20-20-35	2.0	3.5	10	20 µL Tip	10000/PK
F20-22-35	2.2	3.5	10	20 µL Tip	10000/PK
F20-25-35	2.5	3.5	10	20 µL Tip	10000/PK
F20-28-35	2.8	3.5	10	20 µL Tip	10000/PK
F100-36-35	3.6	3.5	10	100 µL Tip	10000/PK
F100-38-35	3.8	3.5	10	100 µL Tip	10000/PK
F200-41-35	4.1	3.5	10	200 µL Tip	10000/PK
F200-45-35	4.5	3.5	10	200 µL Tip	10000/PK
F200-47-35	4.7	3.5	10	200 µL Tip	10000/PK
F500-61-35	6.1	3.5	10	500 µL Tip	10000/PK
F1000-70-40	7.0	4.0	10	1000 µL Tip	10000/PK
F1000-72-40	7.2	4.0	10	1000 µL Tip	10000/PK
F1000-74-40	7.4	4.0	10	1000 µL Tip	10000/PK
F5000-90-40	9.0	4.0	10	5000 µL Tip	5000/PK
F125-35-10	12.5	3.5	10	5000 µL Tip	5000/PK
F10000-142-40	14.2	4.0	10	10000 µL Tip	2500/PK

Custom filters

Note: D stands for diameter, T for thickness, P for pore size.



4Tip™ Specialty Filters for Pipette Tips

Biocomma offers specialty filters for pipette tips, including dual-layered filters, activated carbon filters and self-sealing filters.

4Tip™ Dual-Layered Filters for Pipette Tips

4Tip™ dual-layered filters for pipette tips are composed of two filtration layers of different pore sizes, the pore size of top blue filter is 5 µm, the pore size of bottom white filter is 10 µm. Dual-layered filters offer enhanced aerosol barrier as well as good air permeability.



4Tip™ Activated Carbon Filters for Pipette Tips

4Tip™ activated carbon filters for pipette tips feature aerosol barrier and carbon adsorption. By immortalizing highly activated porous carbon particles on surface of UHMW-PE filters, aerosol and active molecules can be prevented from entering the pipette shaft. Additionally, conductivity of these filters is useful to develop liquid level control functionality.



4Tip™ Self-Sealing Filters for Pipette Tips

4Tip™ self-sealing filters for pipette tips feature good air gas permeability when it is dry and quick sealing once exposed to aqueous solutions, making them ideal for handling dangerous samples. Once it is sealed, it can withstand a press of > 50 kPa (equivalent to that of 5-10 m water).



Order information:

Type	Cat. #	Diameter (mm)	Thickness (mm)	Pore Size (µm)	Usage	Qty.
4Tip™ Dual-layered Filters for Pipette Tips	DF10-18-35	1.8	3.5	10/5	10 µL Tip	10000/PK
	DF200-47-35	4.7	3.5	10/5	200 µL Tip	10000/PK
	DF1000-71-40	7.1	4.0	10/5	1000 µL Tip	10000/PK
4Tip™ Activated Carbon Filters for Pipette Tips	AF10-18-35	1.8	3.5	10	10 µL Tip	10000/PK
	AF200-47-35	4.7	3.5	10	200 µL Tip	10000/PK
	AF1000-71-40	7.1	4.0	10	1000 µL Tip	10000/PK
4Tip™ Self-Sealing Filters for Pipette Tips	CF10-18-35	1.8	3.5	10	10 µL Tip	10000/PK
	CF200-47-35	4.7	3.5	10	200 µL Tip	10000/PK
	CF1000-71-40	7.1	4.0	10	1000 µL Tip	10000/PK
Custom filters						

Dissolution Filters

Dissolution filters have been widely used in pharmaceutical tablet dissolution test, also in instruments such as DNA synthesizer, HPLC system and medical dialyzer to filter contaminants.

biocomma® dissolution filters are sintered from pure UHMW-PE with larger surface area and optimized flow rate. Dissolution filters provide superior resiliency for a good compression fit and a strong, durable construction. Additionally, our dissolution filters are chemically-resistant to withstand most acids and bases.

Features:

- Available in standard cannulas, disks or flexible custom configurations
- No flashes/rag, to meet requirements of stringent appearance
- Reliable filtration performance

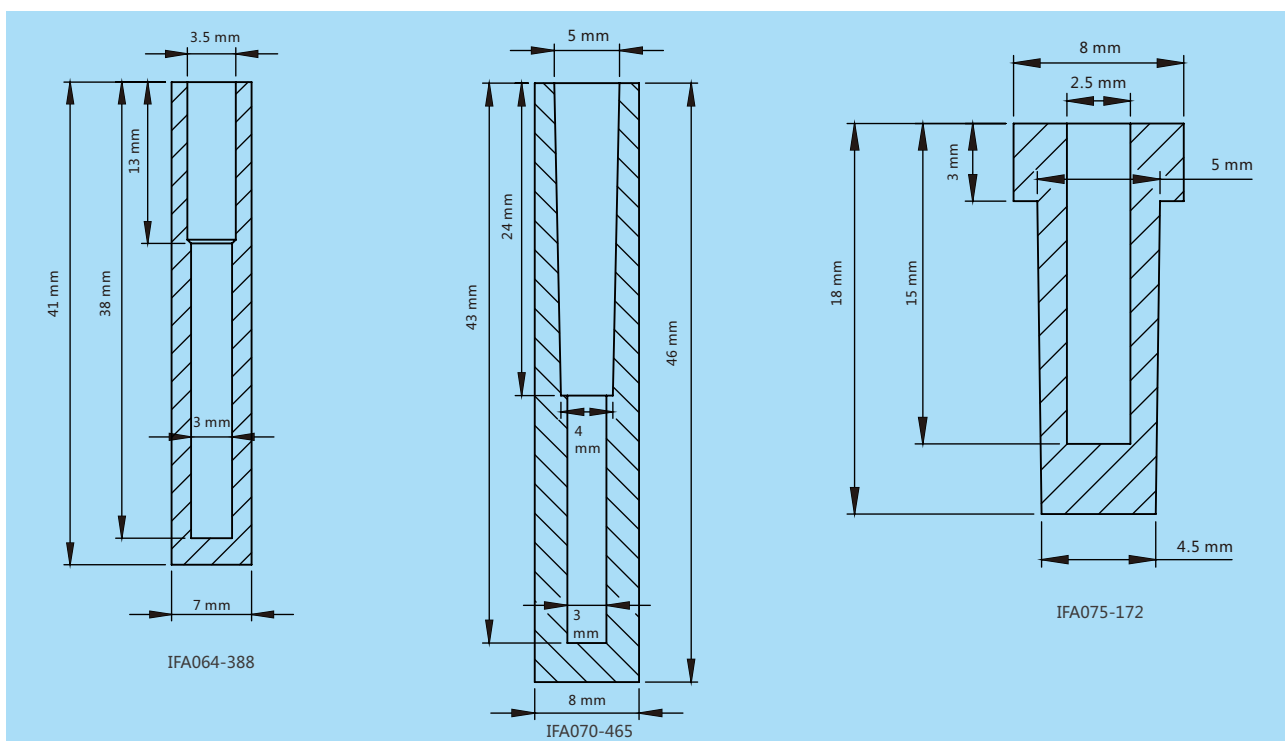
Applications:

- Dissolution test
- Filtration of HPLC mobile phases



Order information:

Cat. #	Description	Qty.
IFA064-388	Dissolution Filters, Irregular Cup-Shaped	1000/Box
IFA070-465	Dissolution Filters, Cup-Shaped	1000/Box
IFA075-172	Dissolution Filters, Cup-Shaped	1000/Box
Custom filters		





PTFE Frits

PTFE is an artificially synthesized polymer material, in which the fluorine atoms replace all the hydrogen atoms of polyethylene. The material is acid resistant, alkali-resistant and all kinds of organic solvent resistant, which will hardly dissolve in most solvents. Additionally, PTFE is also high temperature resistance, and can work at 260 °C for a very long time. The friction coefficient of PTFE is very low and can be used for lubrication.

biocomma® PTFE frits are made from pure PTFE raw material, and can be used in various analysis & testing applications.



Order information:

Cat. #	Diameter (mm)	Thickness (mm)	Pore Size (μm)	Usage	Qty.
F-PTFE-127	12.7	2.5	20	6 mL Glass Cartridges	1000/PK
Custom frits					

Polypropylene Fiber Frits

biocomma® polypropylene fiber frits are made from polypropylene fiber, resistant to acids, bases and most organic solvents, has low absorption for most biological macromolecules. These frits are commonly used in biological applications.

- Thickness: 1.0 mm
- Pore size: 5 μm
- Customizable diameters

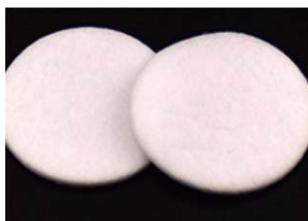


Order information:

Cat. #	Diameter (mm)	Thickness (mm)	Pore Size (μm)	Qty.
F-PP-060-1	6.0	1.0	5	1000/PK
F-PP-066-1	6.6	1.0	5	1000/PK
F-PP-072-1	7.2	1.0	5	1000/PK
F-PP-078-1	7.85	1.0	5	1000/PK
F-PP-080-1	8.0	1.0	5	1000/PK
F-PP-090-1	9.0	1.0	5	1000/PK
F-PP-162-1	16.2	1.0	5	1000/PK
F-PP-171-1	17.1	1.0	5	1000/PK
Custom frits				

Glass Fiber Frits

Glass fiber is resistant to acids, bases and most organic solvents, has low absorption for most biological macromolecules.



biocomma® glass fiber frits are designed for scenarios where high-temperature filtration are required, such as high-temperature gas detection.

Features:

- Thickness: 1.0 - 3.0 mm
- Pore size: 5 µm
- Customizable diameters

Frit Assemblies for HbA1c Analysis

Frit assemblies are assembled from two or more parts. Take biocomma® frit assemblies for HbA1c analysis as example: the biocompatible PEEK housing has a specific outer diameter to match the inner diameter of the tube, while the stainless steel frit provides high-precision filtration.



biocomma® frit assemblies for HbA1 analysis (Type I) come with PEEK housing, stainless steel frits and sealing O-rings, featuring superb filtration performance.

biocomma® frit assemblies for HbA1 analysis (Type II) come with PEEK housing and stainless steel frits.

Applications:

- Used in automatic glycated hemoglobin analyzers

Order information:

Cat. #	Description	Qty.
F-SS-F01	Frit Assemblies for HbA1c Analysis (Type I)	10/PK
F-SS-F02	Frit Assemblies for HbA1c Analysis (Type II)	10/PK

Frits for Ion Chromatography (IC) Columns

biocomma® frits for Ion Chromatography (IC) columns are used in ion chromatography precolumns to improve sensitivity and reproducibility of analysis.



Features:

- Good mechanical strength, resistant to higher back pressure
- Optimized pore size for better flowrate control
- Made from ultrapure UHMW-PE, no impurities and background noise

Order information:

Frits for IC columns are similar to SPE frits, please contact us for further information.



biocomma **Custom Frits / Filters**

We provide **custom filters,**
to empower **your business.**



Macroporous Frits

biocomma® macroporous frits can withstand acidic/alkali solutions and most organic solvents, have no adsorption to most biomolecules, suitable for some special applications.



Features:

- Uniform pore size, suitable for intercepting macromolecules or sediment
- Customizable diameters

Flash Frits

biocomma® flash frits are used in flash chromatography columns, offering improved sensitivity and reproducibility.



Features:

- Good mechanical strength, can withstand higher pressure
- Sintered from ultrapure UHMW-PE, no impurities and background noise
- Customizable diameters

Air Filtration Frits

biocomma® air filtration frits are sintered from uniform UHMW-PE raw material, have abundant maze-like structure. These frits are optimized for high air permeability, are able to barrier particular substances and to reduce noise by attenuating air flow.



Features:

- High porosity and good air permeability
- Good at filtering particles and aerogels
- Excellent noise-suppression performance
- Customizable diameters and thicknesses

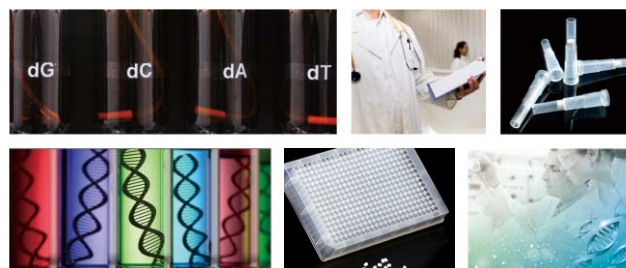
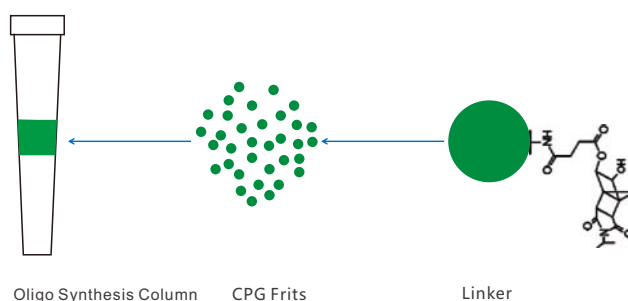
CPG Frits

Embed™ CPG Frits utilize Biocomma's expertise in manufacturing small sintered polyethylene filters. When sintered with UHMW-PE or HDPE material, CPG particles are embedded into rigid PE network to form frits with defined pore sizes and porosities. The resulting CPG frits thus can be assembled in columns or well-plates to be used in automatic oligonucleotide synthesizers, such as ABI 3900, MerMade 192, Dr. Oligo 192, Oligo Maker 192, etc.

Embed™ CPG Frits significantly improve oligo synthesis with the following features:

- Total synthesis cost can be reduced by 30%-40%
- Average oligonucleotide purity is improved by 19.5% compared to traditional technologies
- High coupling efficiency makes high overall yields
- Small-volume design ensures shorter reaction time of synthesis cycles

Embed™ CPG Frits come with a diversity of loading values, including 5 nmol, 10 nmol, 25 nmol, 50 nmol, 100 nmol and 200 nmol. Biocomma also offers universal oligo synthesis columns, gene synthesis columns and 96/384-well plates for gene synthesis. Please contact us for further information.





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Empty Tubes without Frits

biocomma® empty tubes without frits are made from medical-grade polypropylene (PP), including several forms: straight-barrel tubes, rimless straight-barrel tubes, and Luer-inlet tubes. After packing with appropriate sorbents / resins and frits, these tubes can be used in applications such as solid-phase extraction (SPE), affinity chromatography (AC) and solid-phase synthesis. In addition to PP tubes, we also offer glass straight-barrel tubes for applications such extraction of plasticizers in foodstuff and food packaging materials.





Empty Straight-Barrel Tubes

biocomma® empty straight-barrel tubes are made from medical-grade polypropylene (PP), with Luer-outlet at the bottom. After packing with appropriate sorbents / resins, these tubes are used in applications such as solid-phase extraction (SPE), affinity chromatography (AC) and solid-phase synthesis.

Features:

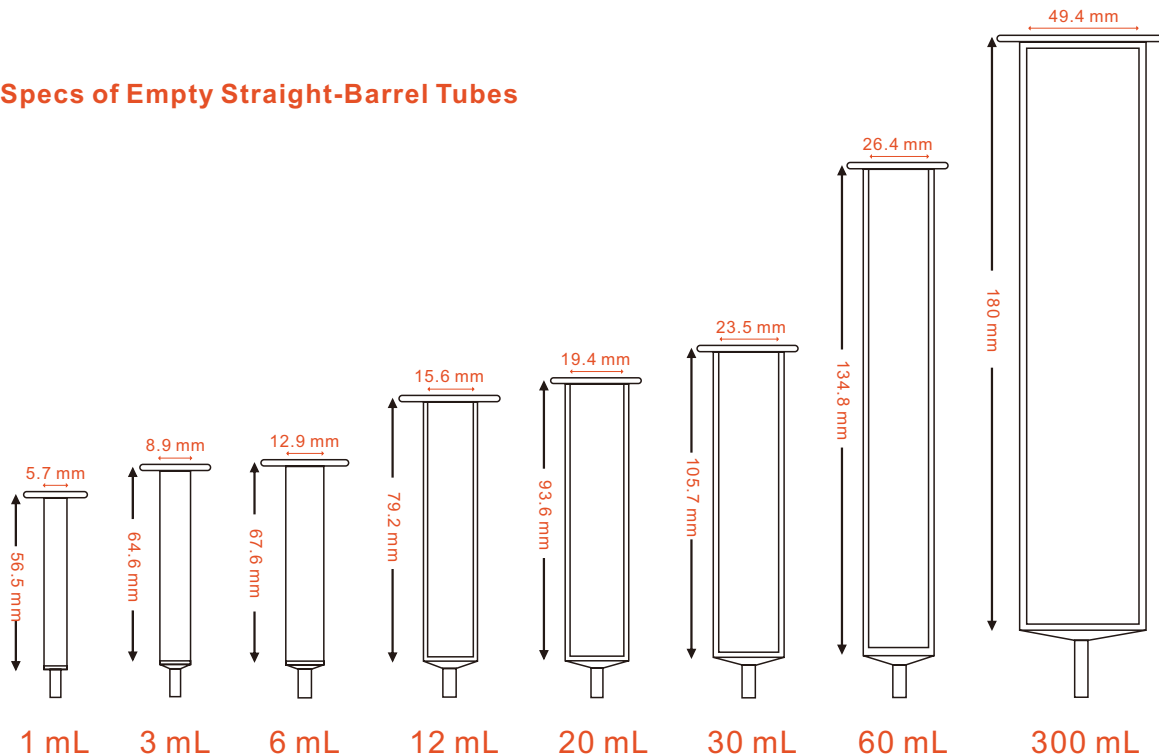
- Available volumes from 1 mL to 300 mL
- Optional accessories: upper caps, bottom caps, fixing rings, frits (hydrophilic or hydrophobic)



Order information:

Cat. #	Description	Qty.
CT001-BC-1	1 mL Empty Straight-Barrel Tubes	500 /PK
CT003-BC-1	3 mL Empty Straight-Barrel Tubes	200 /PK
CT006-BC-2	6 mL Empty Straight-Barrel Tubes	100 /PK
CT012-BC-2	12 mL Empty Straight-Barrel Tubes	100 /PK
CT020-SL-2	20 mL Empty Straight-Barrel Tubes	50 /PK
CT030-SL-2	30 mL Empty Straight-Barrel Tubes	50 /PK
CT030-SZ-1	30 mL Empty Straight-Barrel Tubes	50 /PK
CT060-BC-2	60 mL Empty Straight-Barrel Tubes	50 /PK
CT150-BC-1	150 mL Empty Straight-Barrel Tubes	20/PK
CT300-BC-2	300 mL Empty Straight-Barrel Tubes	10 /PK

Specs of Empty Straight-Barrel Tubes





Empty Luer-Inlet Tubes

biocomma® empty Luer-inlet tubes are made from medical-grade polypropylene (PP), with Luer-inlet at the top and Luer-outlet at the bottom, ideal for tandem applications.



Order information:

Cat. #	Description	Qty.
CT001-JY-N-1	1 mL Empty Luer-Inlet Tubes	1000/PK

Empty Glass Tubes

biocomma® empty glass tubes are made of high-purity glass, with Luer-outlet at the bottom. Since these tubes do not contain plastic, they are ideal for applications such as extraction of plasticizers from foodstuffs and food packaging materials.



Order information:

Cat. #	Description	Qty.
GCT006-MY-1	6 mL Empty Glass Tubes	12/Box

Empty Rimless Tubes

biocomma® empty rimless tubes are made from medical-grade polypropylene (PP) and with Luer-outlet at the bottom. After packing with appropriate sorbents / resins, these tubes are used in applications such as solid-phase extraction (SPE), affinity chromatography (AC) and solid-phase synthesis.

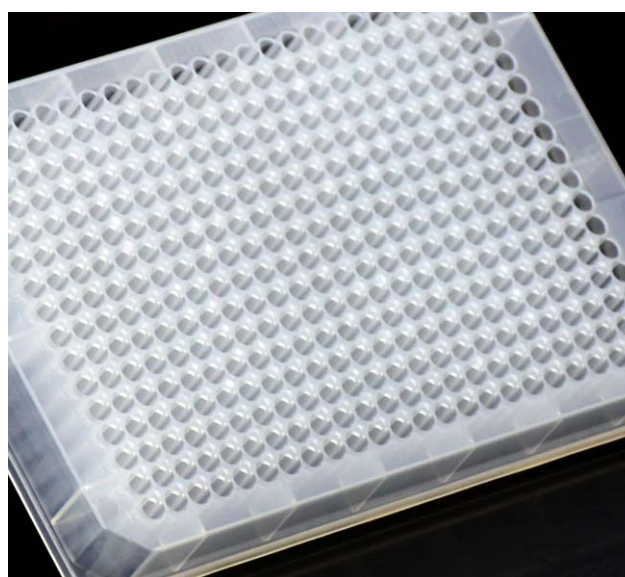
Features:

- Rimless design are useful for compact figurations in high-throughput systems
- Available volumes: 1 mL, 3 mL, 6 mL, 12 mL
- Optional accessories: fixing rings, frits (hydrophilic or hydrophobic)



Order information:

Cat. #	Description	Qty.
NT001-1	1 mL Empty Rimless Tubes	100/PK
NT003-1	3 mL Empty Rimless Tubes	100/PK
NT006-1	6 mL Empty Rimless Tubes	100/PK
NT012-1	12 mL Empty Rimless Tubes	100/PK



Embed™



384-Well Plates for Gene Synthesis

- ❖ High purity of oligos produces less mutation in final full-length products
- ❖ Small synthesis scale per well provides adequate oligo amounts for subsequent primer assembly while avoiding waste
- ❖ Uniform oligo synthesis performance increases yield of primer assembly
- ❖ Standard 384-well plate format design can improve your working flow



biocomma

Filtration Columns/Plates

Biocomma offers a wide range of sample filtration products, including syringe cartridges, spin columns, 96-well plates and 384-well plates.





Empty Spin Columns

biocomma® empty spin columns can be used for general filtration, or be packed with microfiltration membrane such as MCE, Nylon and PTFE for micro filtration, or be packed with packing materials such as silica membrane, size exclusion chromatographic media, immunoaffinity chromatographic media and SPE sorbents to realize various applications with centrifuge.

2 mL Empty Spin Columns

Features:

- Outer tube volume: 2 mL, inner tube volume: 800 µL
- Tubes are made of high quality medical-grade polypropylene
- Flat cap designs for labeling and writing
- Outer tubes work well with centrifuge rotors
- Inner tubes with Luer outlets suitable for vacuum or centrifuge
- Can withstand high speed centrifugation of 16,000 x g

Applications:

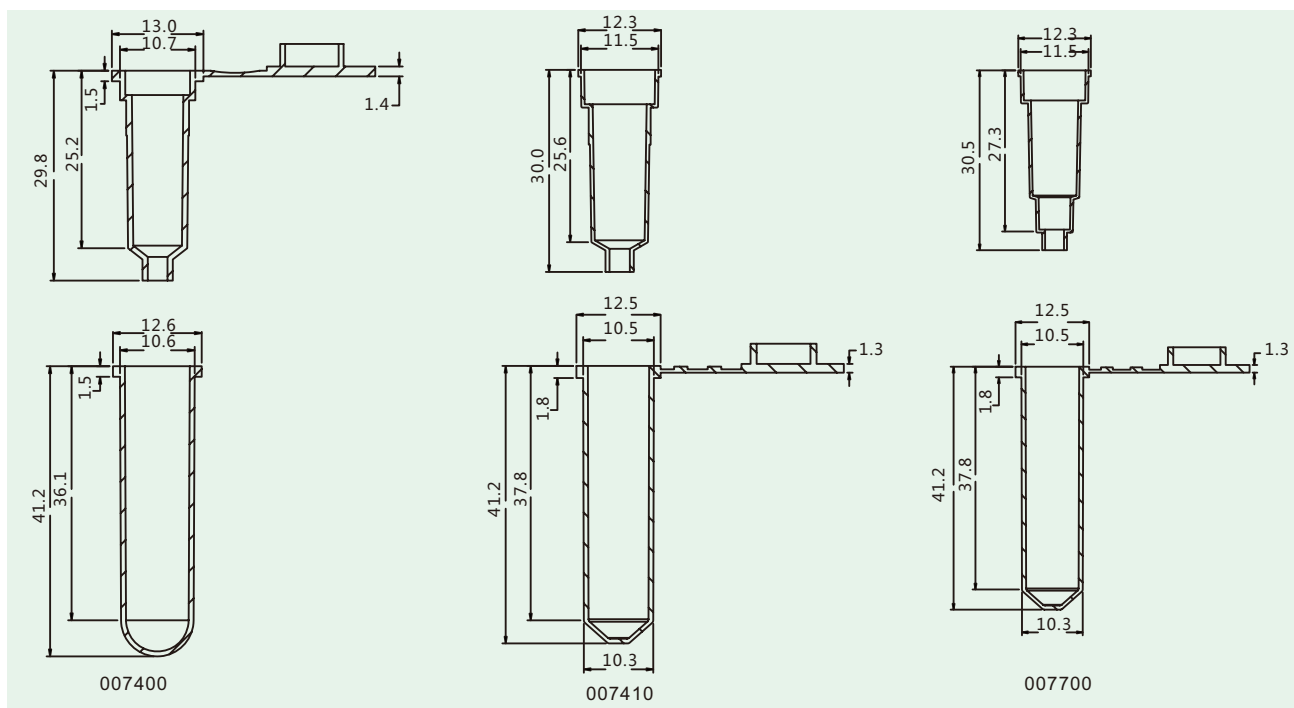
- General filtration
- Extraction and purification of nucleic acids miniprep
- Desalting of nucleic acids, peptides and proteins
- Solid phase extraction



Order information:

Cat. #	Description	Qty.
007400	2 mL Empty Spin Columns, Including Outer Tubes, Inner Tubes (with Lids), UHMW-PE Frits and Fixing Rings	1000/PK
007410	2 mL Empty Spin Columns, Including Outer Tubes (with Lids), Inner Tubes, UHMW-PE Frits and Fixing Rings	1000/PK
007700	2 mL Empty Micro Spin Columns, Including Outer Tubes (with Lids), Inner Tubes, UHMW-PE Frits and Fixing Rings	1000/PK
FC002-22-MCE	2 mL Empty Spin Columns, Including Outer Tubes (with Lids), Inner Tubes, 0.22 µm MCE and Fixing Rings	100/PK
FC002-45-MCE	2 mL Empty Spin Columns, Including Outer Tubes (with Lids), Inner Tubes, 0.45 µm MCE and Fixing Rings	100/PK
FC002-22-PTFE	2 mL Empty Spin Columns, Including Outer Tubes (with Lids), Inner Tubes, 0.22 µm PTFE and Fixing Rings	100/PK
FC002-45-PTFE	2 mL Empty Spin Columns, Including Outer Tubes (with Lids), Inner Tubes, 0.45 µm PTFE and Fixing Rings	100/PK

Note: Custom empty spin columns in additional specifications are available.



15 mL Empty Spin Columns

Features:

- Outer tube volume: 15 mL, inner tube volume: 4 mL
- Tubes are made of high quality medical-grade polypropylene
- White writing area for easy marking in outer tubes
- Outer tubes work well with centrifuge rotors
- Inner tubes with Luer outlets suitable for vacuum or centrifuge
- Can withstand high speed centrifugation of 8400 x g

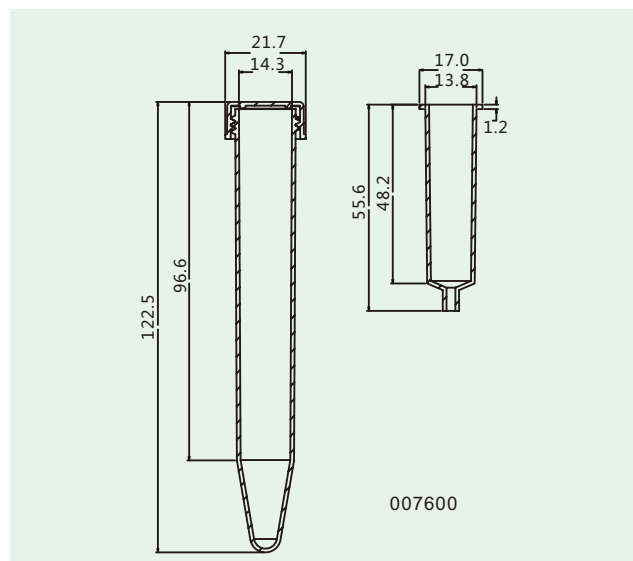
Applications:

- General filtration
- Extraction and purification of nucleic acids midprep
- Desalting of nucleic acids, peptides and proteins
- Solid phase extraction



Order information:

Cat. #	Description	Qty.
007600	15 mL Empty Spin Columns, Including Outer Tubes, Inner Tubes, UHMW-PE Frits and Fixing Rings	50/PK
FC015 -22-MCE	15 mL Empty Spin Columns, Including Outer Tubes, Inner Tubes, 0.22 µm MCE and Fixing Rings	50/PK
FC015 -45-MCE	15 mL Empty Spin Columns, Including Outer Tubes, Inner Tubes, 0.45 µm MCE and Fixing Rings	50/PK
FC015 -22-PTFE	15 mL Empty Spin Columns, Including Outer Tubes, Inner Tubes, 0.22 µm PTFE and Fixing Rings	50/PK
FC015 -45-PTFE	15 mL Empty Spin Columns, Including Outer Tubes, Inner Tubes, 0.45 µm PTFE and Fixing Rings	50/PK



50 mL Empty Spin Columns

Features:

- Outer tube volume: 50 mL, inner tube volume: 22 mL
- Tubes are made of high quality medical-grade polypropylene
- White writing area for easy marking in outer tubes
- Outer tubes work well with centrifuge rotors
- Inner tubes with Luer outlets suitable for vacuum or centrifuge
- Can withstand high speed centrifugation of 9400 x g

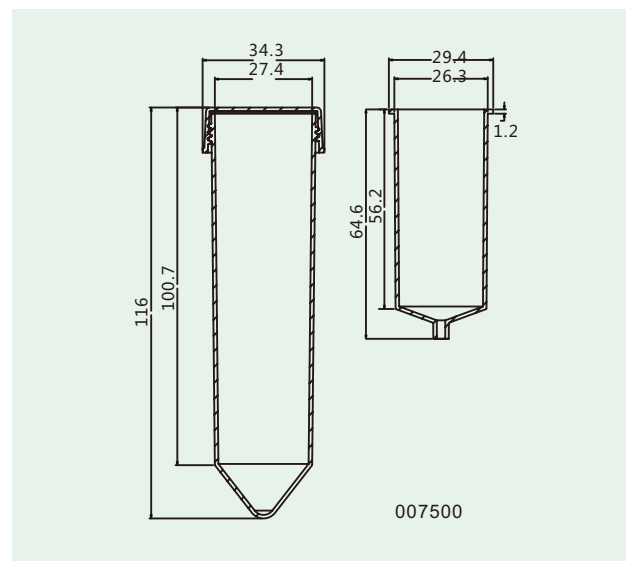
Applications:

- General filtration
- Extraction and purification of nucleic acids maxiprep
- Desalting of nucleic acids, peptides and proteins
- Solid phase extraction



Order information:

Cat. #	Description	Qty.
007500	50 mL Empty Spin Columns, Including Outer Tubes, Inner Tubes, UHMW-PE Frits and Fixing Rings	10/PK
FC050 -22-MCE	50 mL Empty Spin Columns, Including Outer Tubes, Inner Tubes, 0.22 µm MCE and Fixing Rings	20/PK
FC050 -45-MCE	50 mL Empty Spin Columns, Including Outer Tubes, Inner Tubes, 0.45 µm MCE and Fixing Rings	20/PK
FC050 -22-PTFE	50 mL Empty Spin Columns, Including Outer Tubes, Inner Tubes, 0.22 µm PTFE and Fixing Rings	20/PK
FC050 -45-PTFE	50 mL Empty Spin Columns, Including Outer Tubes, Inner Tubes, 0.45 µm PTFE and Fixing Rings	20/PK





Filtration Cartridges

biocomma® filtration cartridges are used to perform a range of filtration operation. Each filtration cartridge contains one cartridges tube, a single 20 µm PE frit or 50 µm hydrophilic frit. These cartridges provide an easy-to-use filtration method for quick and easy removal.

Features:

- Available from 1 mL to 300 mL
- Medical-grade polypropylene tubes with Luer outlets
- Sintered UHMW-PE frits with excellent solvent compatibility
- Suitable for vacuum



Order information:

Cat. #	Description	Qty.
CTF001-BC-1	1 mL Filtration Cartridges, with one 20 µm Frit	500/PK
CTF003-BC-1	3 mL Filtration Cartridges, with one 20 µm Frit	200/PK
CTF006-BC-1	6 mL Filtration Cartridges, with one 20 µm Frit	100/PK
CTF012-BC-1	12 mL Filtration Cartridges, with one 20 µm Frit	100/PK
CTF020-SL-1	20 mL Filtration Cartridges, with one 20 µm Frit	50/PK
CTF030-SL-1	30 mL Filtration Cartridges, with one 20 µm Frit	50/PK
CTF060-BC-1	60 mL Filtration Cartridges, with one 20 µm Frit	50/PK
CTF300-BC-1	300 mL Filtration Cartridges, with one 20 µm Frit	10/PK
CTF001-BC-2	1 mL Filtration Cartridges, with one 50 µm Frit	500/PK
CTF003-BC-2	3 mL Filtration Cartridges, with one 50 µm Frit	200/PK
CTF006-BC-2	6 mL Filtration Cartridges, with one 50 µm Frit	100/PK
CTF012-BC-2	12 mL Filtration Cartridges, with one 50 µm Frit	100/PK
CTF020-SL-2	20 mL Filtration Cartridges, with one 50 µm Frit	50/PK
CTF030-SL-2	30 mL Filtration Cartridges, with one 50 µm Frit	50/PK
CTF060-BC-2	60 mL Filtration Cartridges, with one 50 µm Frit	50/PK
CTF300-BC-2	300 mL Filtration Cartridges, with one 50 µm Frit	10/PK

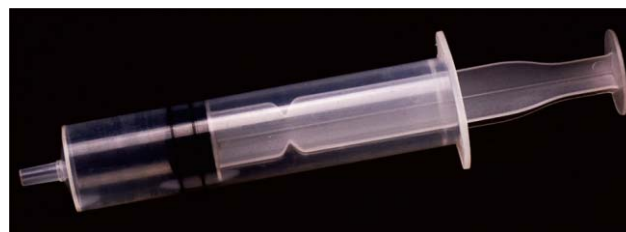
Note: Biocomma also provides upper and bottom caps for filtration cartridges.

Filtration Cartridges (Push Rod)

biocomma® filtration cartridges (push rod) are designed to filter viscous liquid such as bacterial cell lysate. Driven by positive pressure, as the push rod is pushed down, lysate could pass through the frits and form an appropriate solution for further purification.

Features:

- Ideal for viscous liquid filtration
- Positive pressure enables quick sample treatment
- Thickened frits stay motionless when the plunger is pulled back
- Available from 12 mL to 60 mL



Order information:

Cat. #	Description	Qty.
004417-M	Filtration Cartridges, 12 mL, with Two Frits and One Push Rod	50/PK
004407	Filtration Cartridges, 20 mL, with Two Frits and One Push Rod	50/PK
004410-M	Filtration Cartridges, 30 mL, with Two Frits and One Push Rod	50/PK
004416-M	Filtration Cartridges, 60 mL, with Two Frits and One Push Rod	25/PK

Note: Biocomma not only provides filtration cartridges for plasmid filtration, we but customize filtration cartridges for additional applications such as oligonucleotides purification.

Paper Filters

biocomma® paper filters with plastic brackets are molded from filter paper and polyethylene, with a higher filtration surface area, suitable for gravity-flow filtration of viscous liquid such as bacterial cell lysate. When the paper filter (25 mL) is used together with plasmid maxiprep column (RS30-2), it's about 5 minutes to filter 20 mL lysate.

Features:

- High filtration surface and rapid filtration by gravity
- Insoluble in aqueous solutions for a long time
- Resistant to common acids, bases and organic solvents



Order information:

Cat. #	Description	Qty.
004412-1	Paper Filters, 25 mL	25/PK

Note: Custom paper filters in other volumes are available.

SpinFlow™ Lysis-Filtration Columns

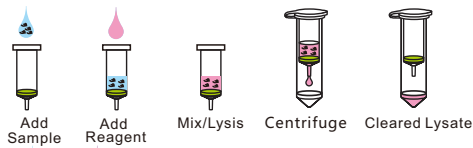
SpinFlow™ lysis-filtration columns are based on Biocomma's newly developed specific-purpose membrane, which shows good temperature tolerance and is able to withstand high-speed centrifugation. A sample held in this column can be enzymatically digested, transported and stored, without leakage. Then, the sample is allowed to pass through the membrane by high-speed centrifugation.

SpinFlow™ lysis-filtration columns have been applied in many fields, particularly in forensic science:

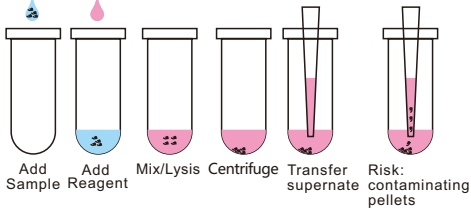
- Extraction of DNA from evidences such as blood spot, saliva or hair
- Extraction of DNA from biological fluids such as plasma, serum, whole blood, lymph or saliva
- Extraction of DNA from bacteria lysates



SpinFlow™ Technology



Traditional Technology



Order information:

Cat. #	Description	Qty.
FS001-1	SpinFlow™ Lysis-Filtration Columns, 1.5 mL	100/PK
FS002-1	SpinFlow™ Lysis-Filtration Columns, 2.0 mL	100/PK

biocomma

Copure® QuEChERS

Ideal for analysis of multi-residual pesticides

50 mL
Extraction Tubes

15 mL
Cleanup Tubes

2 mL
Cleanup Tubes



DVfree™ 384-Well Filtration Plates

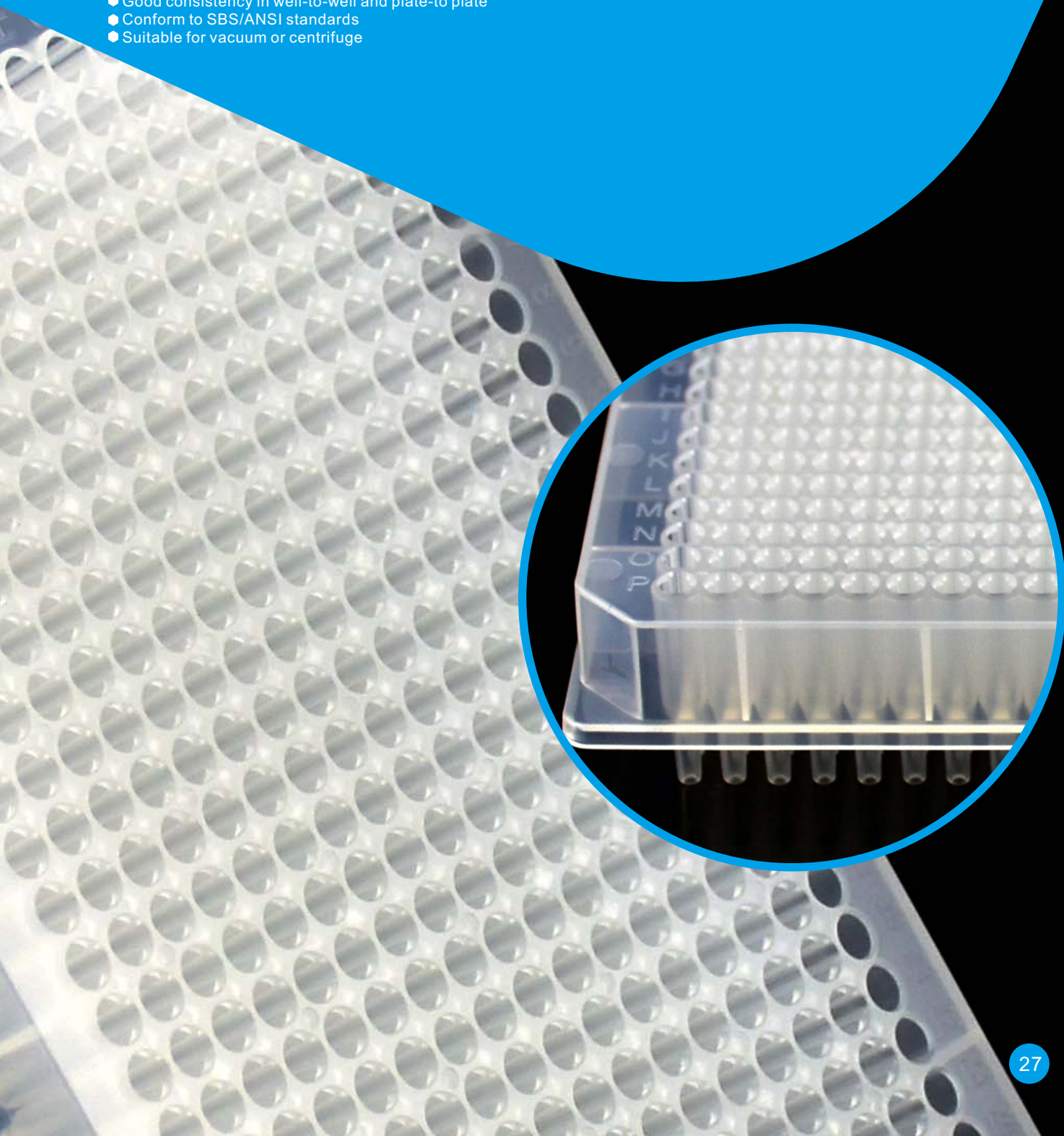
DVfree™ 384-well filtration plates are based on Biocomma's patented structural design without dead volume, which are ideal for filtration and purification for trace samples. The 384-well filtration plates include a variety of pore sizes to provide the best possible performance.

Features:

- Without dead volume, high recovery
- Good consistency in well-to-well and plate-to plate
- Conform to SBS/ANSI standards
- Suitable for vacuum or centrifuge

Order information:

Cat. #	Description	Qty.
0038401-5	DVfree™ 384-Well Filtration Plates, 150 µL/Well, One 5 µm Frit/Well	4/Box
0038401-20	DVfree™ 384-Well Filtration Plates, 150 µL/Well, One 20 µm Frit/Well	4/Box





DVfree™ 96-Well Filtration Plates

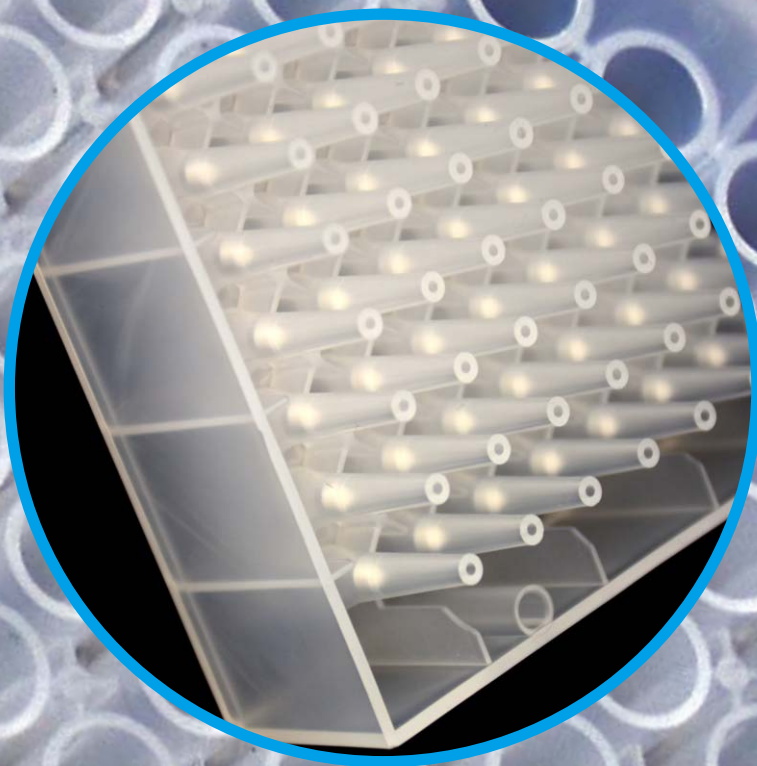
DVfree™ 96-well filtration plates are based on Biocomma's patented structural design without dead volume, which are ideal for filtration and purification for trace samples. The 96-well filtration plates include a variety of pore sizes to provide the best possible performance.

Features:

- Without dead volume, high recovery
- Good consistency in well-to-well and plate-to plate
- Conform to SBS/ANSI standards
- Suitable for vacuum or centrifuge

Order information:

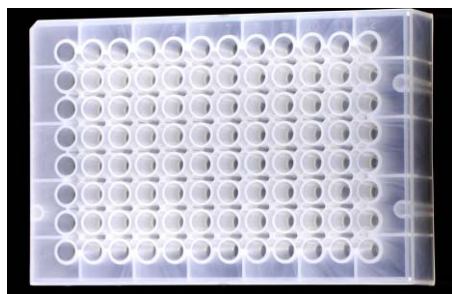
Cat. #	Description	Qty.
009601-5	DVfree™ 96-Well Filtration Plates, 400 µL/Well, One 5 µm Frit/Well	2/Box
009601-20	DVfree™ 96-Well Filtration Plates, 400 µL/Well, One 20 µm Frit/Well	2/Box
DV96	DVfree™ 96-Well Oligo Synthesis Plates, 400 µL/Well, One Frit/Well	4/Box





96-Well Filtration Plates

biocomma® 96-well filtration plates are available for high-throughput sample processing. The filtration plates can filter impurities simply, or be packed with a variety of microfiltration membrane types for micro filtration, or be packed with silica membrane or chromatographic media to realize various applications.



Features:

- Good consistency in well-to-well and plate-to-plate
- Conform to SBS/ANSI standards
- Alphanumeric referencing for easy identification
- Made of high quality medical-grade polypropylene
- Suitable for vacuum or centrifuge
- Can withstand high speed centrifugation of 4,000 x g

Order information:

Cat. #	Description	Qty.
004901-5	96-Well Filtration Plates, 1.0 mL/Well, One 5 µm Frit/Well	2/Box
004901-20	96-Well Filtration Plates, 1.0 mL/Well, One 20 µm Frit/Well	2/Box
004901-80	96-Well Filtration Plates, 1.0 mL/Well, One 80 µm Frit/Well	2/Box
004902-5	96-Well Filtration Plates, 1.5 mL/Well, One 5 µm Frit/Well	2/Box
004902-20	96-Well Filtration Plates, 1.5 mL/Well, One 20 µm Frit/Well	2/Box
004902-80	96-Well Filtration Plates, 1.5 mL/Well, One 80 µm Frit/Well	2/Box
9601-22-NY	96-Well Filtration Plates, 1.0 mL/Well, 0.22 µm Nylon	2/Box
9601-45-NY	96-Well Filtration Plates, 1.0 mL/Well, 0.45 µm Nylon	2/Box
9601-22-PTFE	96-Well Filtration Plates, 1.0 mL/Well, 0.22 µm PTFE	2/Box
9601-45-PTFE	96-Well Filtration Plates, 1.0 mL/Well, 0.45 µm PTFE	2/Box
9601-22-PVDF	96-Well Filtration Plates, 1.0 mL/Well, 0.22 µm PVDF	2/Box
9601-45-PVDF	96-Well Filtration Plates, 1.0 mL/Well, 0.45 µm PVDF	2/Box

Note: Custom 96-well filtration plates in additional specifications are available.



biocomma

Empty Columns with Frits

biocomma® empty columns with frits consist of empty solid-phase extraction (SPE) cartridges, empty affinity chromatography (AC) columns, empty FPLC columns, spin columns, etc. We offer these empty columns to help customers pack columns with their own sorbents.

- 🔍 Empty Solid Phase Extraction (SPE) Cartridges
- 🔍 Empty Chromatography Columns
- 🔍 Empty Synthesis Columns





Empty Solid Phase Extraction (SPE) Cartridges

Solid Phase Extraction (SPE) is a widely used method for sample preparation. Biocomma provides empty solid phase extraction (SPE) cartridges for customers to pack cartridges with their own sorbents for their needs. Each SPE cartridge consists of one tube, two frits.



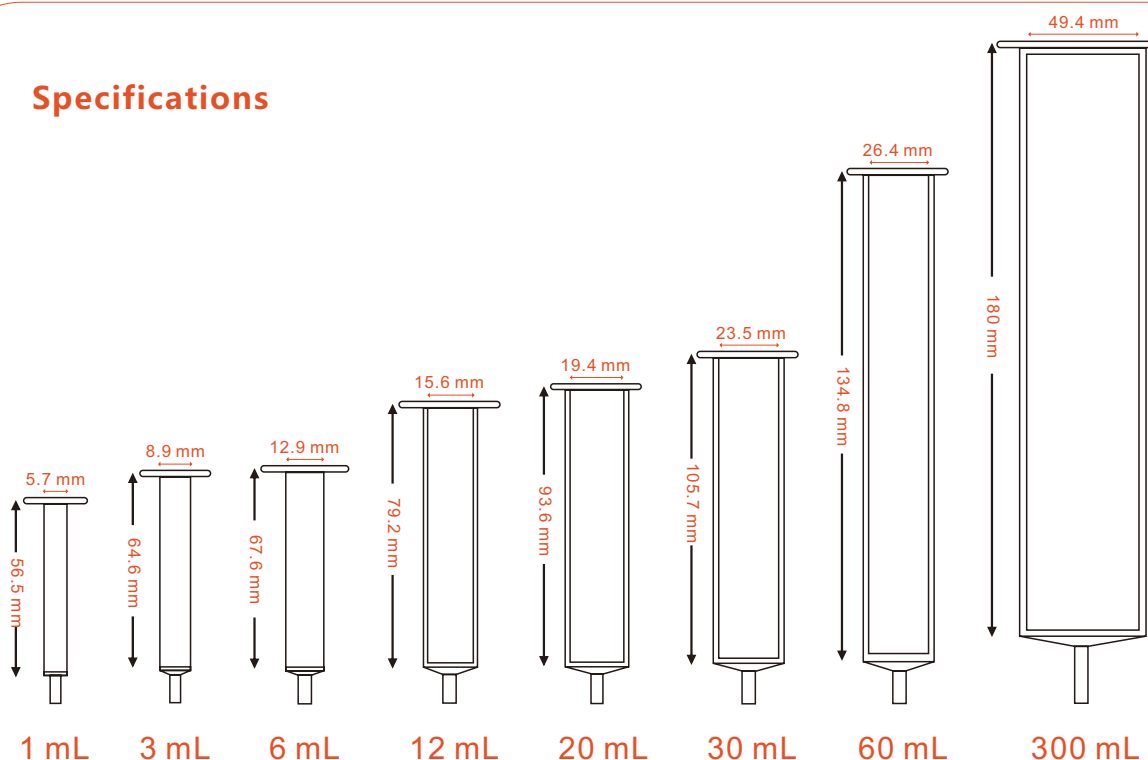
Features:

- Medical-grade polypropylene tubes with Luer outlets
- Available from 1 mL to 300 mL
- Ultrapure sintered UHMW-PE Frits for high sensitivity analysis

Order information:

Cat. #	Description	Qty.
004101	1 mL Empty SPE Cartridges, with Frits	500/Box
004102	3 mL Empty SPE Cartridges, with Frits	100/Box
004103	6 mL Empty SPE Cartridges, with Frits	100/Box
004114	12 mL Empty SPE Cartridges, with Frits	100/Box
004112	20 mL Empty SPE Cartridges, with Frits	50/Box
004105	30 mL Empty SPE Cartridges, with Frits	50/Box
004106	60 mL Empty SPE Cartridges, with Frits	25/Box
004150	150 mL Empty SPE Cartridges, with Frits	20/Box
004113	300 mL Empty SPE Cartridges, with Frits and Fixing Rings	10/Box

Specifications



Instructions for Cartridge Packing

1. Loading Bottom Frit

Push the bottom frit to the bottom of the cartridge using a push rod.

2. Adding Sorbent

Keep the cartridge upright, place a long neck funnel onto the cartridge, add required amount of sorbents to the funnel and remove the funnel until all sorbents slip into the cartridge.

Note: 1) The stemmed funnel's stem should be long enough to put the bottom frit to its final position;
2) Avoid the sorbent adhering to the wall of cartridge when remove the stem funnel.

3. Loading Top Frit

Push the top frit horizontally to the top of the cartridge using a push rod.

Note: If a gap appears between the top frit and the top of sorbent, hold the cartridge upright and tap the cartridge wall gently, then push the top frit to the right position via the push rod.

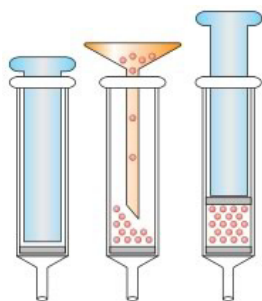


Illustration on cartridge packing >>



Loading Bottom Frit



Adding Sorbent



Loading Top Frit



Finishing Packing

Empty Luer-Inlet SPE Cartridges

Features:

- Medical-grade polypropylene tubes with Luer inlets and Luer outlets
- Two or three columns can be operated in series
- Ultrapure sintered UHMW-PE Frits for high sensitivity analysis

Order information:

Cat. #	Description	Qty.
004303	1 mL Empty Luer-Inlet SPE Cartridges, with Frits	100/Box





Empty Rimless SPE Cartridges

Features:

- Rimless syringe-type formats
- Available from 1 mL to 12 mL
- Suitable for multi-well holders in automatic systems



Order information:

Cat. #	Description	Qty.
004501	1 mL Empty Rimless SPE Cartridges, with Frits	100/Box
004502	3 mL Empty Rimless SPE Cartridges, with Frits	100/Box
004503	6 mL Empty Rimless SPE Cartridges, with Frits	100/Box
004504	12 mL Empty Rimless SPE Cartridges, with Frits	100/Box

Empty Glass SPE Cartridges

Features:

- High-purity glass tubes with Luer-outlets
- High-quality sintered PTFE frits
- Suitable for determination of plasticizers



Order information:

Cat. #	Description	Qty.
004151	6 mL Empty Glass SPE Cartridges	12/Box

Empty SPE Multi-Well Plates

biocomma® empty SPE multi-well plates are available for high-throughput sample processing.



Order information:

Cat. #	Description	Qty.
SPE48-45	48-Well SPE Plates, 4.5 mL, Round Well, Two Frits/Well	2/Box
SPE48-80	48-Well SPE Plates, 8.0 mL, Round Well, Two Frits/Well	2/Box
SPE96-10	96-Well SPE Plates, 1.0 mL, Round Well, Two Frits/Well	4/Box
SPE96-15	96-Well SPE Plates, 1.5 mL, Round Well, Two Frits/Well	4/Box
SPE96-20	96-Well SPE Plates, 2.0 mL, Round Well, Two Frits/Well	4/Box



CommaXP™

rProtein A, G, A/G Prepacked Columns

- ❖ Innovative coupling technology, higher purification efficiency
- ❖ Better specific binding capacity
- ❖ For manual operation and ÄKTA systems

Empty Affinity Chromatography (AC) Columns

biocomma® empty affinity chromatography (AC) columns are designed for fast and simple purification of antibodies, enzymes and other biomolecules using gravity flow. Researchers can pack a wide range of media to isolate and purify proteins of interest.

Each empty AC column comes with one column tube, two hydrophilic frits, one upper cap and one bottom cap. The columns are made of biocompatible polypropylene that does not interact with biomolecules. The hydrophilic frits are manufactured from porous polyethylene.

Features:

- Medical-grade polypropylene tubes with Luer outlets
- Available from 1 mL to 300 mL
- Frits are optimized with good hydrophilicity and a stable flow-rate
- Upper caps are pierceable
- Easy to use with peristaltic pumps or syringes

Applications:


- Purification of tagged proteins, recombinant proteins and antibodies
- Desalting of nucleic acids, peptides and proteins
- Detection of mycotoxins



Order information:


Cat. #	Description	Qty.
004201	1 mL Empty AC Columns	500/Box
004202	3 mL Empty AC Columns	100/Box
004202-N	3 mL Empty AC Columns, with Luer-Inlet Upper caps	100/Box
004203	6 mL Empty AC Columns	100/Box
004204	12 mL Empty AC Columns	100/Box
004206	30 mL Empty AC Columns	50/Box
004209	60 mL Empty AC Columns	25/Box
004215	150 mL Empty AC Columns	20/Box
004208	300 mL Empty AC Columns	10/Box

Note: The standard upper caps of empty AC columns are red, various colors like orange, white, blue and green are available in 1 mL and 3 mL columns.




Innovative Filters for Life Sciences


- Nucleic Acid Purification
- Gene / Peptide Synthesis
- Protein Purification
- Consumables & Parts




Filters for Pipette Tips




Tips for DNA Extraction




384-Well Plates for Gene Synthesis



AC Spin Columns



FPLC Columns



Spin Columns

Packing AC Columns

The section describes a manual method packing AC columns.

1. Pretreating Frits

Place the top and bottom frits into deionized water or 20% ethanol to remove the bubbles present in the frit space.

2. Loading Bottom Frit

Add a little deionized water or 20% ethanol to the bottom of a column tube. Then push the bottom frit to the bottom using a push rod. Close column outlet.

3. Adding Resin

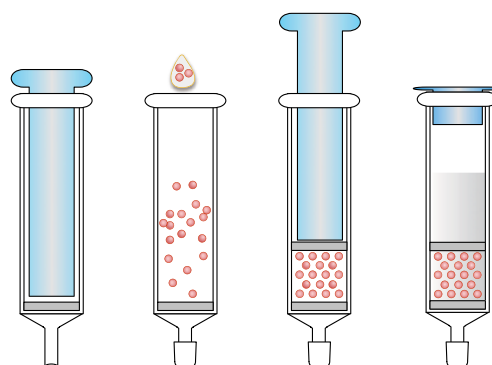
Completely resuspend the resin and transfer the required volume of slurry to the column. Allow the resin to settle and fill the column with buffer.

4. Loading Top Frit

Push the top frit horizontally to the top of the column tube using a push rod.

5. Sealing and Storage

Fill the column with an appropriate solvent. Care should be taken to avoid formation of bubbles. Mount the upper cap and tighten the bottom cap.



How to Use?

The packed AC column can be used via various driving forces as below:

Driving forces	Gravity Flow	Positive Pressure	Peristaltic Pump
Advantages	No dedicated device needed; Flexible and handy	Flexible and handy; Suitable for small-amount purification	Precisely adjustable flowrates; Good repeatability;
Disadvantages	Flowrates must be tested before use	Flowrates must be tested before use	Additional cost for buying pumps

Empty Luer-Inlet AC Columns

Features:

- Medical-grade polypropylene tubes with Luer inlets and Luer outlets
- Two or three columns can be operated in series
- Frits are optimized to ensure good hydrophilicity and uniform flowrates

Applications:

- Purification of tagged proteins, recombinant proteins and antibodies
- Desalting of nucleic acids, peptides and proteins
- Detection of mycotoxins



Order information:

Cat. #	Description	Qty.
004205	1 mL Empty Luer-Inlet AC Columns	1000/Box

Empty Long-Body AC Columns

biocomma® empty long-body AC columns with longer column beds offer higher performance by gravity flow.

Features:

- Medical-grade polypropylene tubes with Luer outlets
- Frits are optimized with good hydrophilicity and a stable flow-rate
- Easy to use, no additional equipment is needed

Applications:

- Purification of tagged proteins, recombinant proteins and antibodies

Order information:

Cat. #	Description	Qty.
004212	6 mL Empty Long-Body AC Columns	100/Box



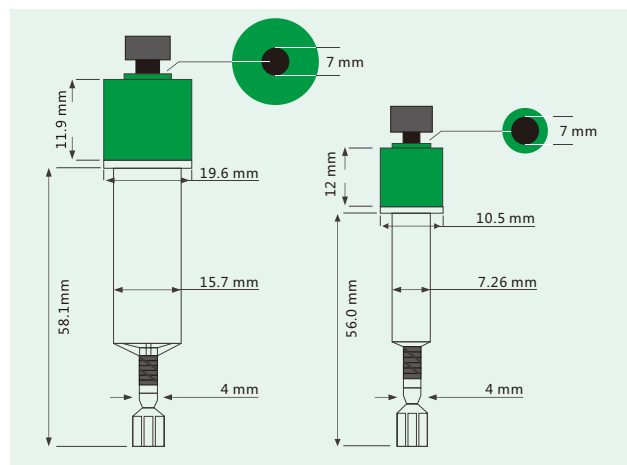


Empty FPLC Columns

biocomma® empty FPLC columns are powerful tools for purification of tagged proteins, antibodies and other biomolecules. Researchers can pack columns with their own chromatographic media using different separation mechanisms (e.g., immunoaffinity, ion exchange, size exclusion, reverse phase) to perform various applications.

Each empty FPLC column includes one column tube, one sealing sleeve, one sealing plug, one top frit, one bottom frit, one top stop plug and one bottom stop plug. The columns are made of biocompatible polypropylene that does not interact with biomolecules. The top and bottom frits are manufactured from porous polypropylene. There is a snap-off end on the outlet.

Biocomma provides 1 mL and 5 mL empty FPLC columns, which can be operated with LC systems such as ÄKTA purifiers, peristaltic pumps or syringes.



Features:

- Superior biocompatibility
- Direct connection with GE ÄKTA purifiers
- Two or three columns can be operated in series

Applications:

- Purification of tagged proteins, recombinant proteins and antibodies
- Desalting of nucleic acids, peptides and proteins



Order information:

Cat. #	Description	Maximum Pressure	Qty.
MPPC001-1	1 mL Empty FPLC Columns, Red Sealing Sleeve	1 MPa (10 bar, 145 psi)	50/Box
MPPC001-1-5T	1 mL Empty FPLC Columns, Red Sealing Sleeve		5/PK
MPPC001-2	1 mL Empty FPLC Columns, Green Sealing Sleeve		50/Box
MPPC001-2-5T	1 mL Empty FPLC Columns, Green Sealing Sleeve		5/PK
MPPC005-1	5 mL Empty FPLC Columns, Red Sealing Sleeve	0.65 MPa (6.5 bar, 94 psi)	50/Box
MPPC005-1-5T	5 mL Empty FPLC Columns, Red Sealing Sleeve		5/PK
MPPC005-2	5 mL Empty FPLC Columns, Green Sealing Sleeve		50/Box
MPPC005-2-5T	5 mL Empty FPLC Columns, Green Sealing Sleeve		5/PK
009808-1	1 mL FPLC Column Assembly Tool		1/PK
009808-5	5 mL FPLC Column Assembly Tool		1/PK

Empty MXK Chromatography Columns

biocomma® empty MXK chromatography columns are designed for standard liquid chromatography of macromolecules. The main parts of the column are glass tube, thermostatic jacket, column end pieces, column bottom piece, adaptor and tubing. The glass tube is made of borosilicate glass, which has a length of 200, 400, 700 or 1000 mm with an inner diameter of 16, 26, 50 mm.

Researchers can pack columns with their own chromatographic media using different separation mechanisms (e.g., immunoaffinity, ion exchange, size exclusion, reverse phase) to realize various applications.

Features:

- Direct connection with GE ÄKTA purifiers
- The quick-lock mechanism of the adapter gives a uniform flow
- The glass tube exhibits excellent chemical resistance
- A broad range of column dimensions for many different needs
- Thermostatic jacket maintains a certain temperature
- Temperature: 4-60 °C; pH: 1-14



Order information:

Cat. #	Dimension (i.d./length mm/mm)	Volume (mL)	Bed height(cm)	Pressure (bar)
MXK16-20	16/200	5-31	2.5-15.5	7
MXK16-40	16/400	45-70	22.5-35	7
MXK16-70	16/700	105-130	52.5-65	7
MXK16-100	16/1000	165-190	82.5-95	7
MXK26-20	26/200	5-66	1-12.5	7
MXK26-40	26/400	122-186	23-35	7
MXK26-70	26/700	281-344	53-65	7
MXK26-100	26/1000	440-504	83-95	7
MXK50-20	50/200	0-274	0-14	7
MXK50-30	50/300	265-559	14-28	7
MXK50-60	50/600	794-1088	40-56	7
MXK50-100	50/1000	1588-1862	81-95	7
M16	16 mm Packing Reservoirs			
M26	26 mm Packing Reservoirs			
M50	50 mm Packing Reservoirs			



Empty Micro-spin Chromatography Columns

biocomma® empty micro-spin chromatography columns are designed for easy and efficient small-scale protein purification. Researchers can pack a wide range of chromatography resins to purify proteins of interest using a microcentrifuge.

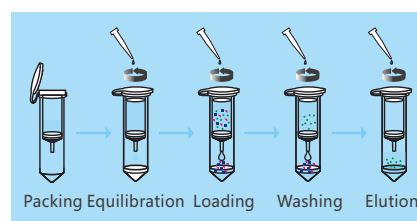
Researchers can pack columns with their own chromatographic media using different separation mechanisms (e.g., immunoaffinity, ion exchange, size exclusion, reverse phase) to realize various applications.

Features:

- Tubes are made of high quality medical-grade polypropylene
- Sintered UHMW-PE Frits with excellent solvent compatibility
- Suitable for 1.5 mL and 2.0 mL microcentrifuge tubes
- Volume of spin column : 800 µL
- Volume of resin : 20-500 µL

Applications:

- Affinity chromatography, desalting, IP, co-IP



Order information:

Cat. #	Description	Qty.
FC7400-1	2 mL Empty Micro-spin Chromatography Columns, including Collection Tubes (2.0 mL), Spin Columns (800 µL, with lids), Frits and Bottom Caps	100/PK
FC7400-2	1.5 mL Empty Micro-spin Chromatography Columns, including Collection Tubes (2.0 mL), Spin Columns (800 µL, with lids), Frits and Bottom Caps	100/PK
FC7410-1	2 mL Empty Micro-spin Chromatography Columns, including Collection Tubes (2.0 mL), Spin Columns (800 µL, without lids), Frits and Bottom Caps	100/PK
FC7410-2	1.5 mL Empty Micro-spin Chromatography Columns, including Collection Tubes (2.0 mL), Spin Columns (800 µL, without lids), Frits and Bottom Caps	100/PK
FC7700-1	2 mL Empty Micro-spin Chromatography Columns, including Collection Tubes (2.0 mL), Mini Spin Columns (800 µL, without lids), Frits and Bottom Caps	100/PK
FC7700-2	1.5 mL Empty Micro-spin Chromatography Columns, including Collection Tubes (2.0 mL), Mini Spin Columns (800 µL, without lids), Frits and Bottom Caps	100/PK

Empty Spin Chromatography Columns

biocomma® empty spin chromatography columns are designed for easy and efficient large-scale protein purification.

Features:

- Tubes are made of high quality medical-grade polypropylene
- Sintered UHMW-PE Frits with excellent solvent compatibility
- Suitable for 15 mL and 50 mL centrifuge tubes
- Volume of spin column : 4 mL/22 mL

Applications:

- Affinity chromatography, desalting, IP, co-IP



Order information:

Cat. #	Description	Qty.
FC7600	15 mL Empty Spin Chromatography Columns, including Collection Tubes (15 mL), Spin Columns (4 mL), Frits and Bottom Caps	50/PK
FC7500	50 mL Empty Spin Chromatography Columns, including Collection Tubes (50 mL), Spin Columns (22 mL), Frits and Bottom Caps	20/PK



Empty Oligo Synthesis Columns

biocomma® empty first generation oligo synthesis columns have six color codes (blue, yellow, red, green, purple, white), designed for ABI 3900 DNA synthesizer.

Each column consists of one column tube and two frits. The columns are made of biocompatible polypropylene and the frits are made of UHMW-PE with optimized pore size and flow rate control.



Order information:

Cat. #	Description	Qty.
D3900-T	Empty Oligo Synthesis Columns, Blue, with Frits	1000/PK
D3900-G	Empty Oligo Synthesis Columns, Yellow, with Frits	1000/PK
D3900-C	Empty Oligo Synthesis Columns, Red, with Frits	1000/PK
D3900-A	Empty Oligo Synthesis Columns, Green, with Frits	1000/PK
D3900-P	Empty Oligo Synthesis Columns, Purple, with Frits	1000/PK
D3900-W	Empty Oligo Synthesis Columns, White, with Frits	1000/PK

Empty High-Loading Oligo Synthesis Columns

biocomma® empty high-loading oligo synthesis columns can meet the demand for synthesis scale of 1 µmol, suitable for ABI 394 and Expedite 8909 DNA synthesizers, both from Thermo Fisher Scientific. Each column consists of one column tube and two frits. The frits are made of UHMW-PE with optimized pore size and flow rate control.



Order information:

Cat. #	Description	Qty.
DSC1000	Empty High-Loading Oligo Synthesis Columns, with Frits	100/PK



Empty SPPS Reactors

Designed for automated solid-phase peptide synthesis, biocomma® empty solid phase synthesis reactors are made of medical-grade polypropylene and assembled with Biocomma's low-adsorption hydrophobic frits. The SPPS reactors are suitable for Teras peptide synthesizer designed by Advanced ChemTech (ACT).

Specifications:

- Total volume: 7 mL
- Working volume: 4 mL
- Synthesis scale: 30-100 μ mol (10-300 mg resin)



Order information:

Cat. #	Description	Qty.
PST002	Empty SPPS Reactors	100/Box

Empty Rimless Solid Phase Synthesis Columns

biocomma® empty rimless solid phase synthesis columns can be packed with various media to perform oligo synthesis, peptide synthesis and immobilized enzyme reaction.

Features:

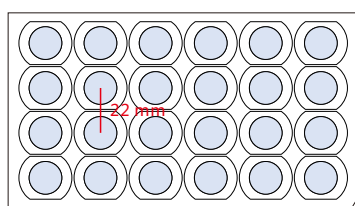
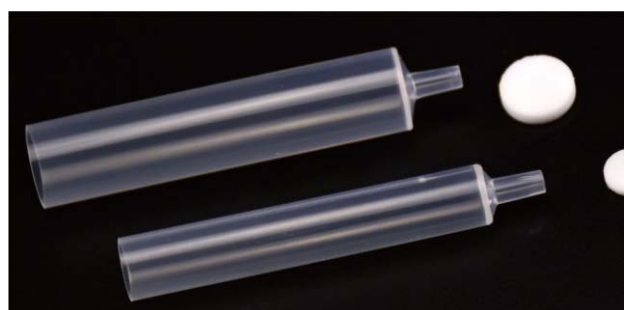
- Flexible usage for custom synthesizers
- Large-volume cartridges available
- More compact configuration in tray

Automation & High-Throughput

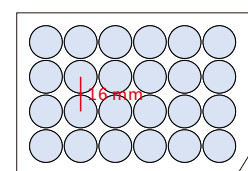
Compared to rimmed columns, rimless columns have significant advantages in high-throughput applications:

(1) Min. distance between columns is 30% less. This design will fit most robotic arms and improve throughput.

(2) Footprint is 50% less. This makes it possible to design compact and portable systems.



12 mL rimmed columns,
Min. distance between columns are 22 mm



12 mL rimless columns,
Min. distance between columns
are 16 mm

Order information:

Cat. #	Description	Qty.
DSSC-1	1 mL Empty Rimless Solid Phase Synthesis Columns, with Frits	100/PK
DSSC-3	3 mL Empty Rimless Solid Phase Synthesis Columns, with Frits	100/PK
DSSC-6	6 mL Empty Rimless Solid Phase Synthesis Columns, with Frits	100/PK
DSSC-12	12 mL Empty Rimless Solid Phase Synthesis Columns, with Frits	100/PK

Note: Biocomma not only provides standard columns for solid phase synthesis, but also customizes columns for automated synthesizer.



biocomma

Empty Column Kits

biocomma® empty column kits consist of empty tubes, frits, caps, assembly tools and operation manuals for customers to pack small amounts of columns in their laboratories. We now offer kits for affinity chromatography (AC) columns and SPE cartridges with column volumes ranging from 1 mL to 300 mL.



Empty Affinity Chromatography (AC) Column Kits

biocomma® empty affinity chromatography (AC) column kits include empty tubes, frits, upper and bottom caps, push rods, syringes and connecting pipes for customers to pack their own media easily and handily.



Order information:

Cat. #	Description	Qty.
006001	Empty AC Column Kits for 1 mL Columns	10/Box
006002	Empty AC Column Kits for 3 mL Columns	10/Box
006003	Empty AC Column Kits for 6 mL Columns	10/Box
006004	Empty AC Column Kits for 12 mL Columns	10/Box
006005	Empty AC Column Kits for 30 mL Columns	5/Box
006006	Empty AC Column Kits for 60 mL Columns	5/Box
006008	Empty AC Column Kits for 300 mL Columns	3/Box
006007	Empty AC Columns Kits for 1 mL Luer-Inlet Columns	10/Box

Note: The QTY indicates the QTY of empty columns which are well assembled in each kit. Besides, each kit consists of one push rod, two syringes and one connecting pipe of 0.5 meter.


 biocomma

Copure® Frits SPE
 Quicker Extraction

www.biocomma.com

Example:

The following procedure for purification of polyhistidine-tagged proteins is only to help better understand the use of empty AC column kits, only for reference, please adjust according to your specific application.

1. Buffer Preparation

Equilibration Buffer: PBS buffer, pH 7.4

Wash Buffer: PBS buffer, 10 mM imidazole, pH 7.4

Elution Buffer: PBS buffer, 20 mM imidazole, 50 mM imidazole, 100 mM imidazole, 200 mM imidazole, pH 7.4

Note: It is recommended filtering the buffers by passing them through a 0.45 µm filter before use.

2. Column Packing

Refer to instructions for column packing (Page 27).

3. Purification

(1) Equilibrate the column with 10 column volumes of Equilibration Buffer at 1 mL/min.

(2) Apply the freshly prepared clear sample containing target polyhistidine-tagged protein onto the column at 0.5-1 mL/min. Collect and save the flow-through for analysis.

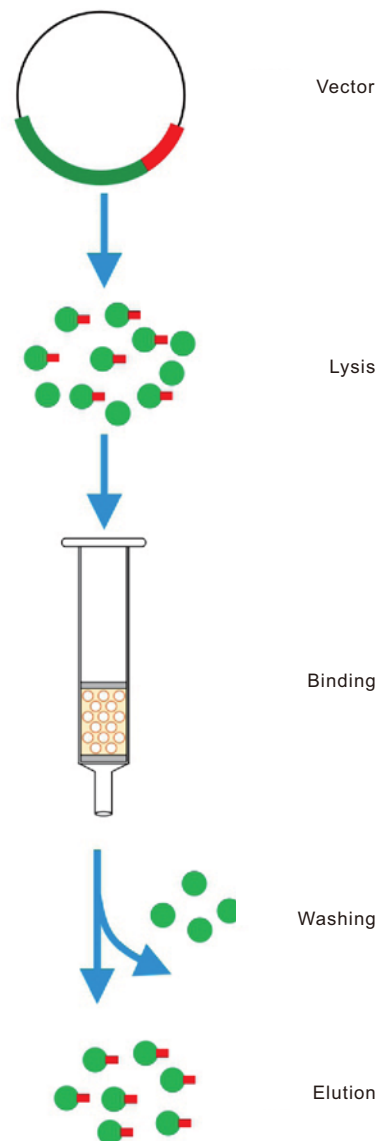
(3) Wash the column with 5-10 column volumes of Wash Buffer at 1 mL/min.

(4) Elute the polyhistidine-tagged protein by gradient elution using Elution Buffer containing different imidazole concentration at 1-2 mL/min. Monitor elution by measuring A₂₈₀ and collect the elution.

(5) Detect the purification effect by SDS-PAGE electrophoresis.

4. Column Regeneration

Wash the resin with the following solutions: 10 column volumes of deionized water, 10 column volumes of 20% ethanol. For long-term storage, the resin should be stored in 20% ethanol at 4 °C.





Empty Solid Phase Extraction (SPE) Cartridge Kits

biocomma® empty solid phase extraction (SPE) cartridge kits include empty tubes, frits and push rods for customers to pack their own sorbents easily and handily.



Order information:

Cat. #	Description	Qty.
004101-2K	Empty SPE Cartridge Kits for 1 mL Cartridges	100/Box
004102K	Empty SPE Cartridge Kits for 3 mL Cartridges	100/Box
004103K	Empty SPE Cartridge Kits for 6 mL Cartridges	100/Box
004114K	Empty SPE Cartridge Kits for 12 mL Cartridges	100/Box
004112K	Empty SPE Cartridge Kits for 20 mL Cartridges	50/Box
004105K	Empty SPE Cartridge Kits for 30 mL Cartridges	50/Box
004106K	Empty SPE Cartridge Kits for 60 mL Cartridges	25/Box
004113K	Empty SPE Cartridge Kits for 300 mL Cartridges	10/Box
004303K	Empty SPE Cartridge Kits for 1 mL Luer-Inlet Cartridges	100/Box
004151K	Empty SPE Cartridge Kits for 6 mL Glass Cartridges	12/Box

Note: The QTY indicates the QTY of empty columns which are well assembled in each kit. Besides, each kit comes with one push rod.



Easy Packing ^{with} Empty Column Kits

Tubes, frits and tools included
Your own sorbents of choice
For small quantity of column packing



biocomma

Nucleic Acid Purification Columns

Biocomma provides customers in *in vitro* diagnosis and life science research areas with a wide range of nucleic acid purification columns. We have established automatic assembly lines, and offer larger packages as well as flexibly customizable options.

Biocomma's nucleic acid purification columns include:

- (1) CommaPrep™ nucleic acid purification columns, based on silica membrane adsorption technology, used in life science research, *in vitro* diagnosis among other applications;
- (2) CommaPure™ nucleic acid purification columns, based on anion-exchange resin, used in large-scale extraction;
- (3) CommaTip™ nucleic acid extraction tips.





Nucleic Acid Purification Spin Columns

CommaPrep™ nucleic acid purification spin columns are based on Biocomma's proprietary spin column-based silica membrane purification technology. In addition to the spin column itself, each spin column comes with one outer tube (reservoir), one frit, one silica membrane and one fixing ring.

Under low pH and chaotropic conditions, nucleic acids specifically bind to silica membrane while polysaccharides and proteins pass through. Impurities are further removed by washing. Finally, under low-salt conditions, nucleic acids are desorbed and eluted from the membrane.

Advantages:



Automated Assembling



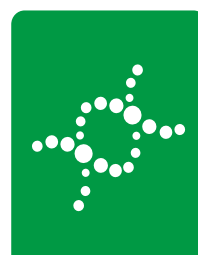
Large Packaging



High Yield Silica Membrane



ISO9001:2015 Certificated



Verified Applications



ERP Workflow

Order information:

Cat. #	Description	Volume	Yield	Qty.
NP05	Nucleic Acid Purification Spin Columns, Micro Spin Columns	2 mL , 800 µL	~5 µg	500/Box
NP10	Nucleic Acid Purification Spin Columns, Capped Outer Tubes	2 mL , 800 µL	~10 µg	500/Box
NP10-A	Nucleic Acid Purification Spin Columns, Capped Inner Tubes	2 mL , 800 µL	~10 µg	500/Box
NP20	Nucleic Acid Purification Spin Columns, Capped Outer Tubes	2 mL , 800 µL	~20 µg	500/Box
NP20-A	Nucleic Acid Purification Spin Columns, Capped Inner Tubes	2 mL , 800 µL	~20 µg	500/Box
NP30	Nucleic Acid Purification Spin Columns, Capped Outer Tubes	2 mL , 800 µL	~30 µg	500/Box
NP30-A	Nucleic Acid Purification Spin Columns, Capped Inner Tubes	2 mL , 800 µL	~30 µg	500/Box
NP100	Nucleic Acid Purification Spin Columns, for plasmid midiprep	15 mL , 4 mL	~100 µg	50/Box
NP500	Nucleic Acid Purification Spin Columns, for plasmid maxiprep	50 mL , 22 mL	~500 µg	20/Box



Compatible with various kits

- Plasmid Miniprep Kit
- Plasmid Midiprep Kit
- Plasmid Maxiprep Kit
- Rapid Plasmid Miniprep Kit
- Soli Genomic DNA Kit
- Rapid Soli Genomic DNA Kit
- Plant Genomic DNA Kit
- Rapid Plant Genomic DNA Kit
- Yeast Plasmid Miniprep Kit
- Gel DNA Purification Kit
- Blood Genomic DNA Kit
- Blood Genomic Midiprep Kit
- Bacteria Genomic DNA Kit
- Yeast Genomic DNA Kit
- PCR Purification Kit

Nucleic Acid Extraction & Purification Plates

CommaPrep™ 96/384-well extraction plates are designed for high-throughput samples processing. The plates are suitable for plasmid or genomic DNA extraction, up to 15 µg DNA per well can be achieved.

Extracted DNA is ready to use in many downstream applications, including restriction digestion, ligation and transformation, PCR, sequencing and library construction.



Features:

- For high-throughput samples processing
- High quality with reproducible yields
- Suitable for vacuum or centrifuge

Order information:

Cat. #	Description	Volume	Yield	Qty.
DNAK9602-N	96-Well Extraction Plates, Semi-Skirted	1.0 mL/Well	~15 µg/Well	4/Box
DNAK9603-N	96-Well Extraction Plates, Full-Skirted	1.5 mL/Well	~15 µg/Well	4/Box
DNAK3840	384-Well Extraction Plates	150 µL/Well	~5 µg/Well	4/Box

Nucleic Acid Extraction Tips

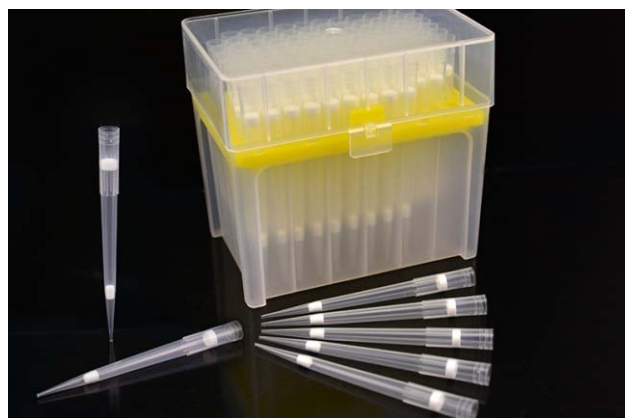
CommaTip™ nucleic acid extraction tips are based on Biocomma's proprietary macroporous silica membrane which binds DNA/RNA uniquely.

Experiments using these tips are simple, fast and easy. It simplifies nucleic acid extraction procedures by combining all of the complex protocols into just a few easy steps, including lysis, binding, washing and eluting. In addition to simplifying procedures, the tip is also superior to other technologies in terms of yield and purity.

Features:

- Easy and fast extraction
- High yields and high purity
- Suitable for many kinds of samples

Order information:



Cat. #	Description	Qty.
TP01	Nucleic Acid Extraction Tips, 1.0 mL	96/Box
TP05	Nucleic Acid Extraction Tips, 5.0 mL	48/Box

Plasmid Preparation Columns (Anion-exchange)

CommaPure™ plasmid preparation columns are based on Biocomma's anion-exchange chromatography. The resins are composed of small particles with a uniform particle, to provide high yields and reproducible performance.

Extracted plasmid is ready to use in many downstream applications, including sequencing, library construction, transcription, transfection.

Features:

- High yield: up to mg-level plasmid DNA
- High purity: like CsCl gradient centrifugation and purification
- Suitable for high or low copy plasmids



Order information:

Cat. #	Description	Volume	Yield	Qty.
RS30-1	CommaPure™ Plasmid Maxiprep Columns	30 mL	300-600 µg	20/Box
RS30-2	CommaPure™ Plasmid Maxiprep Columns	30 mL	500-1000 µg	20/Box
RS300-22	CommaPure™ Plasmid Megaprep Columns	300 mL	~5-10 mg	10/Box
Custom Columns				

Large-Volume Plasmid Miniprep Columns

CommaPrep™ large-volume plasmid miniprep columns are supplied with spin columns, extension tubes, connectors and collection tubes. The columns allow large sample volume and normal elution volume with a binding capacity of 120 µg.

Extracted plasmid is ready to use in many downstream applications, including restriction digestion, ligation and transformation, PCR, sequencing and library construction.

Features:

- Large sample volume to improve experimental efficiency
- Reduce sampling times and easy to operate
- High yield: up to 120 µg high purity plasmid DNA



Order information:

Cat. #	Description	Yield	Qty.
EP50-03	CommaPrep™ Large-Volume Plasmid Miniprep Columns, 3 mL extension tubes, capless spin columns	~60 µg	50/Box
EP50-06	CommaPrep™ Large-Volume Plasmid Miniprep Columns, 6 mL extension tubes, capless spin columns	~80 µg	50/Box
EP50-12	CommaPrep™ Large-Volume Plasmid Miniprep Columns, 12 mL extension tubes, capless spin columns	~120 µg	50/Box

Large-Volume Micro-Scale DNA Column

CommaPrep™ large-volume micro-scale DNA columns are supplied with spin columns, extension tubes, connectors and collection tubes. The connector can connect the spin column with extension tube seamlessly. Maximum concentration ration makes the columns are especially suitable for the extraction of nucleic acids of low concentration, such as serum/plasma circulating DNA.

Extracted nucleic acid is ready to use in many downstream applications, including PCR, realtime RT-PCR, restriction digestion, sequencing and library construction.

Features:

- The starting sample volume is as high as 25 mL, but the elution volume is as low as 20 µL
- Good integrity and high purity
- Simple procedures and easy to operate

Order information:

Cat. #	Description	Yield	Qty.
EP05-06	CommaPrep™ Large-Volume Micro-Scale DNA Columns, 6 mL extension tubes, Mini spin columns	5~10 µg	50/Box
EP05-12	CommaPrep™ Large-Volume Micro-Scale DNA Columns, 12 mL extension tubes, Mini spin columns	5~10 µg	50/Box
EP05-25	CommaPrep™ Large-Volume Micro-Scale DNA Columns, 25 mL extension tubes, Mini spin columns	5~10 µg	20/Box





Accessories for Nucleic Acid Purification

High-Speed Centrifuge Membrane

biocomma® high-Speed centrifuge membrane is made of special material, shows almost no binding to nucleic acids. It has a minimal thickness of 0.3 mm, making it an ideal component for nucleic acid purification.

Features:

- Can withstand high speed centrifugation
- Low adsorption to nucleic acids
- Very small void volume



Order information:

Cat. #	Usage	Qty.
DNAF051-03-50	2 mL Spin Columns	1000/PK
DNAF073-03-50	2 mL Spin Columns	1000/PK
DNAF110-03-50	15 mL Spin Columns	1000/PK
DNAF240-03-50	50 mL Spin Columns	1000/PK
Custom		

Silica Membrane

Silica membrane is a key component in spin column-based nucleic acid purification technology. Under low pH and chaotropic conditions, nucleic acids specifically bind to silica membrane while polysaccharides and proteins pass through. Impurities are further removed by washing. Finally, under low-salt conditions, nucleic acids are desorbed and eluted from the membrane.

Features:

- High quality with high yield and good stability
- Suitable for spin columns or plates



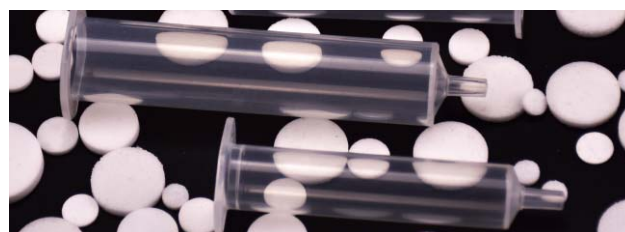
Order information:

Cat. #	Description	Qty.
Y-SM-BC-1	Silica Membrane, 210 mm *297 mm /Sheet	100/Box

Note: Custom silica membrane is available, please contact us.

Empty Gravity Flow Nucleic Acid Purification Columns

biocomma® empty gravity flow nucleic acid purification columns are designed for packing ion exchange resin to extract and purify nucleic acids, which are supplied with tubes and hydrophilic frits.

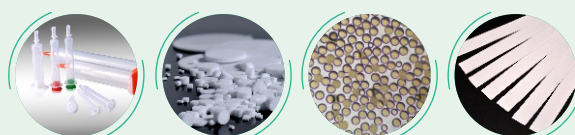


Order information:

Cat. #	Description	Qty.
004402	6 mL Empty Gravity Flow Nucleic Acid Purification Columns	100/PK
004403	12 mL Empty Gravity Flow Nucleic Acid Purification Columns	100/PK
004404	30 mL Empty Gravity Flow Nucleic Acid Purification Columns	50/PK
004406	20 mL Empty Gravity Flow Nucleic Acid Purification Columns	50/PK
004405	60 mL Empty Gravity Flow Nucleic Acid Purification Columns	25/PK
004408	300 mL Empty Gravity Flow Nucleic Acid Purification Columns	10/PK

OEM

Key Materials



Manufacturing & Supports





biocomma

Collection Plates

biocomma® collection plates are molded from medical-grade polypropylene with high stability. Biocomma also provides round or square capped sealing mats suitable for different collection plates. Collection plates have many outstanding properties such as excellent solvent resistance (including DMSO, Ethanol and Isopropanol), good heat resistance and low residual liquid. International ANSI/SBS standards-compliant designs and alphanumeric referencing ensure collection plates could be widely used in automatic and robotic instruments





Collection Plates

biocomma® collection plates are molded from medical-grade polypropylene with high chemical stability. The collection plates have many outstanding properties such as excellent solvent resistance (including DMSO, Ethanol and Isopropanol), good heat resistance and low residual liquid. International ANSI/SBS standards-compliant designs ensure collection plates could be used with 96-well filtration plates or 96-well extraction plates.

Features:

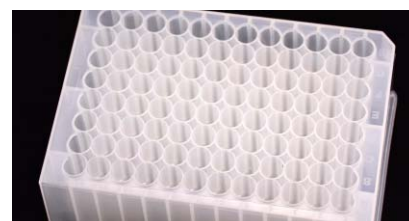
- Can withstand high speed centrifugation of 4,000 x g
- Tolerant to autoclave at 121 °C for 20 min
- Available in deep-well plates and micro-well plates



Collection Plates (Round Well)

Order information :

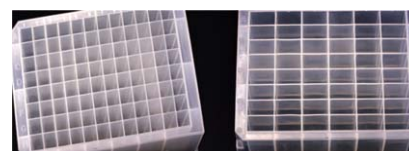
Cat. #	Description	Qty.
48WP-C035	48-Well Collection Plates, 3.5 mL, Round Well, U-Bottom	24/Box
96WP-C020	96-Well Collection Plates, 2.0 mL, Round Well, U-Bottom	24/Box
96WP-C010	96-Well Collection Plates, 1.0 mL, Round Well, U-Bottom	24/Box
96WU-004	96-Well Collection Plates, 0.4 mL, Round Well, U-Bottom	10/Box
96WV-0036	96-Well Collection Plates, 0.36 mL, Round Well, V-Bottom	10/Box
384WV-0002	384-Well Collection Plates, 0.02 mL, Round Well, V-Bottom	10/Box



Collection Plates (Square Well)

Order information :

Cat. #	Description	Qty.
48WP-S046	48-Well Collection Plates, 4.6 mL, Square Well, U-Bottom	24/Box
96WP-S022	96-Well Collection Plates, 2.2 mL, Square Well, U-Bottom	24/Box
96WP-S016	96-Well Collection Plates, 1.6 mL, Square Well, U-Bottom	24/Box
96WP-S010	96-Well Collection Plates, 1.0 mL, Square Well, U-Bottom	24/Box



Note: For sterilized collection plates, please contact us.



**biocomma®
Multi-Tube Vortexer**

For QuEChERS Applications

Silicone Sealing Mats

biocomma® silicone sealing mats are free of DNase and RNase, which match with the corresponding collection plates well.

Order information :

Cat. #	Description	Qty.
96WSC20	96-Well Round Capped Silicone Sealing Mats, for Sealing 96-Well Collection Plates (2.0 mL), Pierceable	10/PK
96WSC10	96-Well Round Capped Silicone Sealing Mats, for Sealing 96-Well Collection Plates (1.0/0.4/0.36 mL), Pierceable	10/PK
96WSS	96-Well Square Capped Silicone Sealing Mats, for Sealing 96-Well Collection Plates (2.2/1.6/1.0 mL)	10/PK
96WSP	96-Well Square Capped Silicone Sealing Mats, for Sealing 96-Well Collection Plates (2.2/1.6/1.0 mL), Pierceable	10/PK
96WS	Adhesive Sealing Films, for Sealing Deep Well Plates	500/PK



Reagent Reservoirs

biocomma® reagent reservoirs are available in 8-channel, 12-channel, 96-channel and 384-channel, free of DNase and RNase. The reservoirs can perfectly overcome the surface tension of the liquid and minimize residual liquid.

Order information :

Cat. #	Description	Qty.
8WR	8-Channel Reagent Reservoirs, 22 mL	10/Box
12WR	12-Channel Reagent Reservoirs, 15 mL	10/Box
96WR	96-Channel Reagent Reservoirs, 195mL	10/Box
384WR	384-Channel Reagent Reservoirs, 185 mL	10/Box



Centrifuge Tubes

biocomma® centrifuge tubes are made of high quality medical-grade polypropylene, can withstand high speed centrifugation of 14,000 x g and autoclave at 121 °C for 20 min.

Order information :

Cat. #	Description	Qty.
SC-002-CO-AJ-2	Centrifuge Tubes, 2.0 mL, with Lids	500/PK
SC-002-O-AJ-2	Centrifuge Tubes, 2.0 mL, without Lids	1000/PK
SC-0015-CO-2	Centrifuge Tubes, 1.5 mL, with Lids	500/PK
SC-002-CO-2	Centrifuge Tubes, 2.0 mL, with special clasp design	500/PK





Disposable Flocked Swabs

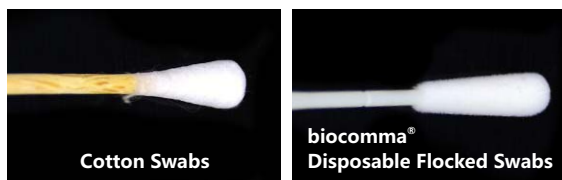
biocomma® disposable flocked swabs for specimen collection, are made of a short nylon tip and a medical ABS shaft. The short nylon tip could work like a velvet-like brush to effectively improve the performance of specimen collection. Through the microscopic capillary brush, the ends of the nylon form a superior hydraulic fluid layer to uptake the specimen. Meanwhile, the entire sample stays closely at the surface to be completely released.

Applications:

- Sample collections in gene detection, cytologic sample pretreatment, virologic cells culture, enzyme-linked immunosorbent assay (ELISA), PCR detection and etc. And specimen collections for molecular diagnose, respiratory virus, cervical exfoliated cells and etc.

Features:

- Superior performance of specimen collections: rapid release and high efficient elution reach to 95%.
- Unique design to balance the patients' comfort during sample collection.
- EO sterilization in an individual package.
- Easy-to-break point in ABS shaft achieve to flexible options for reserving samples.
- High purity ensures zero inhibitors or interference.



Comparison with Cotton Swabs

	Cotton Swabs	biocomma® Disposable Flocked Swabs
Specimen Elution	20%-30%	95%
Comfort of Patients	Obvious pain	More comfortable
Design of Shaft	Without breakpoint	A breakpoint

biocomma® Flocked Swabs for DNA Specimen Collection



biocomma® Flocked Swabs for Oropharynx Specimen Collection



biocomma® Flocked Swabs for Nasopharynx Specimen Collection



Procedure:

Collection: Tear the outer packaging and take out the swab; Insert the swab into the sampling site; Rotate the swab to 5~10 circles to ensure collect enough specimen; Take out the swab.

Elution: Insert the swab into the given sampling reserving solutions and stir the swab around 10 times for fully release and elution of the samples; break the swab handle at the scored breakpoint and discard the handle end.

Reservation: Labeling the sample and preserve for subsequent testing.

Order information:

Cat. #	Description	Qty.
CJ001-01	Flocked Swabs for DNA Specimen Collection	1/PK, 500/Box
CJ001-02	Flocked Swabs for Oropharynx Specimen Collection	1/PK, 500/Box
CJ001-04	Flocked Swabs for Nasopharynx Specimen Collection	1/PK, 500/Box



Blood Collection Cards

biocomma® blood collection cards are new media for DNA preservation based on plant fiber, designed for collection, transportation and preservation of blood samples at room temperature. With unique formula and production technology, the blood collection card has the functions of protein denaturation, cell membrane rupture, DNA adsorption, and inhibiting bacterial growth, thus ensured the PCR efficiency will decrease and maintain its activity after several years' preservation. In addition, denaturation of proteins inactivated the pathogenic microorganisms or viruses in biological samples, avoided the pollution risk to operators, and ensured the safety of the long-distance transportation.

Applications:

- Collection and preservation of blood samples.

Features:

- Easy to use: Only need to spot and dry sample
- Good stability: Blood sample could be preserved for over 10 years.
- Function test: PCR results of preserved blood sample are the same as fresh blood sample.
- Safe and reliable: lyse the cells and prevent the growth of bacteria and fungi.
- Efficient and multiple uses: The DNA bound with the blood collection card can be amplified multiple times.

Components:

Description	Qty.
Blood collection filter-paper	1
Information card	1

Specifications:

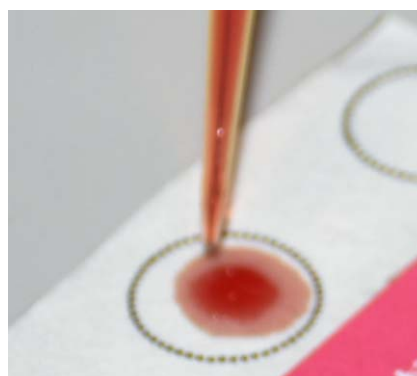
- Thickness : 0.50 mm ± 0.01 mm
- Ash content : 0.1% ± 0.001%
- Assembly environment: Class 100,000 cleanroom, 30%-50% relative humidity
- Total colony number : Passed the test according to standard GB/ T14233.2-93 "Test methods for infusion, transfusion, injection equipment for medical use - part II: biological test methods".
- Effective test area: There are 3 configurations on the filter paper with more than 1.2 cm diameter each, filter paper is adhered to information card.
- Information card dimension: 10 cm length, 6.4 cm width.
- Bactericidal and anticorrosive effect: Treatment with nanometer silver solution has antibacterial, anticorrosive and bactericidal effects, which can effectively guarantee the stability of blood samples during storage.
- Blood collection card with one sample can be used for DNA detection of multiple targets, and can be used for multiple times to facilitate reexamination.
- No human DNA contamination.
- Information card can be customized upon request.

Procedure:

1. Pipette 50 µL whole venous blood.



2. Slowly drop blood to the center of the sampling ring, avoid bubble occurrence.



Order information:

Cat. #	Description	Qty.
CJ002	Blood Collection Cards	1/PK, 1000/Box
CJ002-1	Newborn Screening Blood Collection Cards	1/PK, 1000/Box
CJ002-2	Prenatal Screening Blood CollectionCards	1/PK, 1000/Box
CJ002-3	Forensic Blood Collection Cards	1/PK, 1000/Box





Saliva DNA Collectors

biocomma® saliva DNA collectors collect the oral saliva sample through collection tube, the uniform mixing of the collected saliva with saliva preservation solution to ensure the integrity of DNA and its long-term preservation at room temperature.

Applications:

- biocomma® saliva DNA collector is suitable for collecting and storing saliva samples secreted by human oral cavity at room temperature. Subsequently, DNA in saliva samples can be obtained by nucleic acid extraction method.

Features:

- Quickly collect samples
- The sample is stable and can be stored at room temperature for convenient transportation.
- Efficient extraction for automation
- Reduce sample contamination

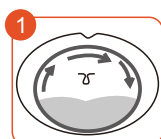
Components:

Description	Qty.
Collection funnel	1
Collection tube	1
Saliva preservation solution	1

Specifications:

- Saliva sample volume: 2 mL
- Downstream application: saliva DNA extraction
- Storage condition: room temperature (15-25 °C)

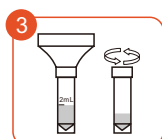
Process of saliva collection:



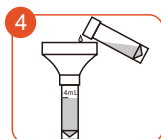
30 minutes before collecting the saliva sample, please wash the debris in the mouth with drinking water and use the tip of the tongue against the upper or lower root to enrich the saliva.



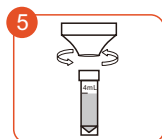
Spit the saliva gently into the collection funnel until the saliva (non-bubble) reaches the 2 mL mark height.



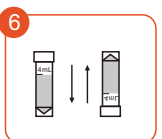
Hold the saliva collection tube so that it is upright and use the other hand to assist in unscrewing the pink cap of the saliva preservation solution.



Slowly pour the saliva preservation solution into the collection funnel, keep it upright and let the solution flow completely into the collection tube.



Keep the collection tube in an upright position, carefully unscrew the collection tube from the collection funnel and discard it.



Tighten the collection tube with the small blue lid of the saliva preservation tube, and invert the collection tube upside down 5 times to mix the saliva with the saliva preservation solution.



Notices:

- Do not eat, drink, smoke or chew gum 30 minutes before collecting saliva samples.
- It takes 2-5 minutes for most people to collect saliva samples according to the above steps. Before starting to collect saliva, please relax your cheeks and gently massage your cheeks with your fingers for 15-30 seconds to produce saliva.
- Confirm that the outer packaging of the saliva sample collection tube is intact, check the saliva preservation tube to confirm that there is no leakage (Important: Saliva preservation solution is not edible).
- The saliva samples collected by this product can be stored stably for 12 months under room temperature. High-quality high-molecular-weight DNA fragments can be isolated during the storage period.
- Due to the individual differences in the samples, the storage life of different samples fluctuated.
- This product is a one-time product and cannot be reused.

Order information:

Cat. #	Description	Qty.
CJ003-1	Saliva DNA Collector	1/Box, 200/Carton
CJ003-2	Saliva DNA Collector, with Cell preservation Solution	1/Box, 200/Carton

Tips

Saliva is rich in DNA, is a good source of sample collection. Saliva sample collection is a method of obtaining DNA that is harmless and painless to the human body. This method does not cause any discomfort to the recipient and is easily accepted, thus maximizing the sampling range of the genetic research, and is particularly suitable for large-scale population surveys of molecular epidemiology. Saliva sample DNA can be stored for many years at room temperature and is environmentally friendly and easy to carry.

Stool Collectors

Stools are composed of digested and undigested food particles, digestive tract secretions and lots of bacteria and water. The tests of stool specimen are helpful to assess patients' digestive system function and diagnose diseases. There are different specimen preservation methods according to different test purpose, and the preservation methods are closely related to the test result.

biocomma® stool collectors collect stool specimen by using of collection tube, which ensured the long-term RT preservation of stool samples and the integrity of DNA in them.

Applications:

- Stool genomic DNA extraction, routine fecal examination (including morphological examination of human parasites), collection and preservation of fecal occult blood and helicobacter pylori immunological test in stool specimens.

Features:

- Collect samples quickly
- Maintain samples' stability at room temperature, easy to transport
- Efficient extraction makes it more convenient for automating
- Reduce sample contamination

Components:

Description	Qty.
Collection tube	1
Spatula	1

Process of stool collection:

1. Use spatula to collect pea-sized stool, try to take the part with mucus or blood.



2. Send samples to test.



Notices:

- Try to get stool specimens containing such as mucus, pus blood and so on.
- Fresh stool specimens should be collected, do not mix with urine, disinfectant and sewage, so as not to destroy the ingredients, and cause the death of pathogens and pollution of saprophytic protozoa.
- The specimen should be well covered and sent to test within 2 hours after collection, otherwise the cell components in stool can be broken down due to the influence of digestive enzymes.
- The stool collectors should be stored in dry place and away from light before using, and tube cap should not be open at will to avoid the contamination affecting the accuracy of test results.

Order information:

Cat. #	Description	Qty.
CJ004	Stool Collectors	1 set/box, 1000 sets/carton



CommaXP™
Nucleic Acid Purification Kits



Cell Preservation Solution

Cell preservation solution is a matrix containing cell fixing agent, which can quickly fix and preserve white blood cells, exfoliated epithelial cells and other valuable cells in the sample to prevent effective cells from autolysis.

Applications:

- Maintaining cellular activity during sample collection.

Features:

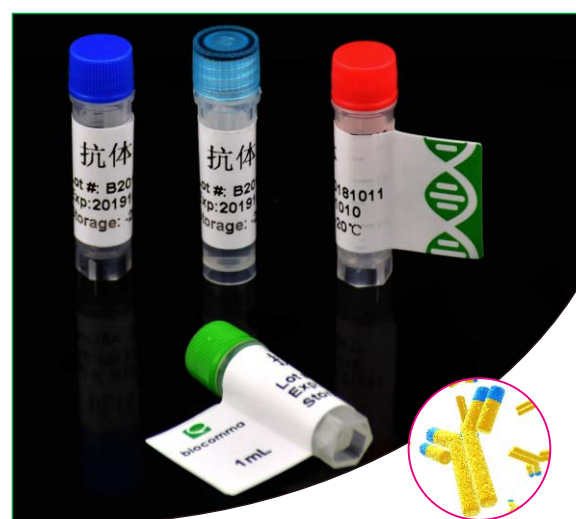
- Cells immobilized in cell preservation solution are in good morphology, which can maintain the original morphology of cells during sample collection, and will not undergo morphological changes such as swelling and shrinkage, so as to ensure the quantity and quality requirements of effective cells for testing.
- biocomma® cell preservation solution can dilute mucus and isolate a large number of effective cells embedded in mucus. In order to preserve more valuable cells and provide enough cells to ensure the accuracy of the test results, the processed samples can be filtered by low-speed centrifugation to completely remove the mucus in the samples and effectively prevent the mucus from interfering with the test results.
- After low-speed centrifugation, the samples can be made into uniform single-layer cell sheets, which meets the requirements of detection.
- The exfoliated cells treated with cell preservation solution have affinity to biological stain, which is beneficial to the staining of biological stain and provides convenience for the follow-up work of inspectors.

Specifications:

- Preservation solution volume: 5 mL
- Application: samples collected (e.g. exfoliated cells of the mouth and cervix)
- Storage conditions: room temperature (15-25 °C)

Order information:

Cat. #	Description	Qty.
CJ005	Cell Preservation Solution	5 mL/Vial



biocomma® Secondary Antibodies

High-purity monkey anti-mouse and monkey anti-rabbit secondary antibodies for colloidal gold assay.



Connectors

The step cone-shaped and Luer inlet design ensure the connectors are suitable for 1, 3, 6, 12 mL cartridges, especially for tandem extraction.



Order information:

Cat. #	Description	Qty.
CS000	Connectors, for 1/3/6/12 mL Cartridges	10/PK
CS003	Connectors, for 3 mL Cartridges	100/PK

Fixing Rings

Fixing rings are designed to provide additional fixing of packing sorbents or media in large cartridges. Available in various sizes.



Order information:

Cat. #	Description	Qty.
CT003-BC-CR	Fixing Rings, for 3 mL Cartridges	1000/PK
CT006-BC-CR	Fixing Rings, for 6 mL Cartridges	1000/PK
CT012-BC-CR	Fixing Rings, for 12 mL Cartridges	1000/PK
CT030-BC-CR	Fixing Rings, for 30 mL Cartridges	1000/PK
CT060-BC-CR	Fixing Rings, for 60 mL Cartridges	1000/PK
CT300-BC-CR	Fixing Rings, for 300 mL Cartridges	1000/PK

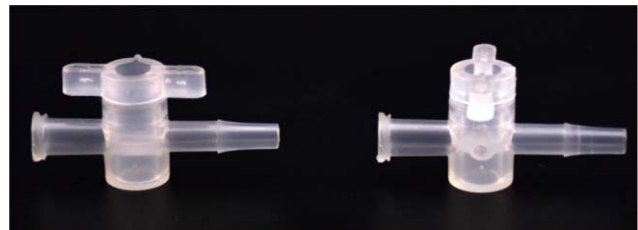
Cell Strainers

biocomma® cell strainers are easy to isolate cells to obtain a uniform single-cell suspension from tissues. They fit perfectly into 6 mL, 12 mL, 30 mL and 60 mL tubes that can be driven by positive pressure or gravity-flow. The nylon mesh with 40 µm, 70 µm, 100 µm are designed for a variety of applications.



Flow Regulators

Flow regulators are suitable for connecting with vacuum manifolds to control flowrate and pressure, each with one Luer inlet and one Luer outlet.



Order information:

Cat. #	Description	Qty.
CS002	Flow Regulators	10/PK

Upper and Bottom Caps

Upper and bottom caps are useful for preserving prepacked cartridges. Upper caps are suitable for cartridges of different sizes respectively, and bottom caps are universal for all cartridges.



Order information:

Cat. #	Description	Qty.
UC001-BC	Upper caps, for 1 mL Cartridges, Red	1000/PK
UC001-BC-O	Upper caps, for 1 mL Cartridges, Orange	1000/PK
UC001-BC-W	Upper caps, for 1 mL Cartridges, White	1000/PK
UC001-BC-G	Upper caps, for 1 mL Cartridges, Green	1000/PK
UC001-BC-B	Upper caps, for 1 mL Cartridges, Blue	1000/PK
UC003-BC	Upper caps, for 3 mL Cartridges, Red	1000/PK
UC003-BC-O	Upper caps, for 3 mL Cartridges, Orange	1000/PK
UC003-BC-W	Upper caps, for 3 mL Cartridges, White	1000/PK
UC003-BC-G	Upper caps, for 3 mL Cartridges, Green	1000/PK
UC003-BC-B	Upper caps, for 3 mL Cartridges, Blue	1000/PK
UC003-BC-N	3 mL Luer-Inlet Upper Caps, Red	1000/PK
UC003-BC-NG	3 mL Luer-Inlet Upper Caps, Green	1000/PK
UC006-BC	Upper caps, for 6 mL Cartridges, Red	1000/PK
UC012-BC	Upper caps, for 12 mL Cartridges, Red	1000/PK
UC030-SZ	Upper caps, for 30 mL Cartridges, Orange	1000/PK
UC060-BC	Upper caps, for 60 mL Cartridges, Red	1000/PK
LC-1-BC	Bottom Caps, for all Cartridges	1000/PK

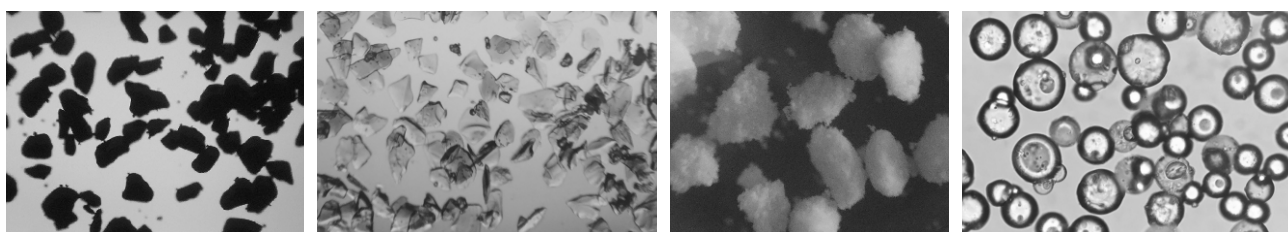
SPE Sorbents

Biocomma offers bulk SPE sorbents used for packing your own SPE cartridges or QuChERS kits.

Order information:

Cat #	Name	Description	Qty.
HLB-1-50	HLB	Hydrophilic-Lipophilic Balanced Sorbent	50g
MCX-1-50	MCX	Mixed-Mode Cation Exchange Sorbent	50g
MAX-1-50	MAX	Mixed-Mode Anion Exchange Sorbent	50g
WCX-1-50	WCX	Weak Cation Exchange Sorbent	50g
WAX-1-50	WAX	Weak Anion Exchange Sorbent	50g
C18-1-100	C18	Endcapped Octadecyl Sorbent	100g
C18N-1-100	C18N	Non-Endcapped Octadecyl Sorbent	100g
C18A-1-100	C18A	Hydrophilic Octadecyl Sorbent	100g
C8-1-100	C8	Octyl Sorbent	100g
SILICA-1-100	Silica	Unbounded Silica Sorbent	100g
FLORISIL-1-100	Florisil	Florisil sorbent	100g
DIOL-1-100	Diol	Dihydroxy sorbent	100g
CN-1-100	CN	Cyanopropyl Sorbent	100g
ALA-1-100	ALA	Acidic Alumina Sorbent	100g
ALN-1-100	ALN	Neutral Alumina Sorbent	100g
ALB-1-100	ALB	Basic Alumina Sorbent	100g
GCB-1-50	Carb-GCB	Graphitized Carbon Black Sorbent	50g
NH-1-100	NH ₂	Aminopropyl Sorbent	100g
PSA-1-100	PSA	Primary-Secondary Amine Sorbent	100g
PRS-1-100	PRS	Propylsulfonic Acid Sorbent	100g
SCX-1-100	SCX	Strong Cation Exchange Sorbent	100g
SAX-1-100	SAX	Strong Anion Exchange Sorbent	100g
C8SCX-100	C8/SCX	Octyl/Strong Cation Exchange Sorbent	100g
C8SAX-100	C8/SAX	Octyl/Strong Anion Exchange Sorbent	100g

Note: For more sorbent information, please contact Biocomma.





biocomma

Chromatography Consumables

biocomma® chromatography consumables include autosampler vials, syringe filters and microporous membrane, suitable for analysis and life sciences.



Autosampler Vials

biocomma® autosampler vials are made of USP Type 1 borosilicate glass, suitable for most commercially available autosamplers. Please request our complete brochure to select caps with septa for each type of vials.



8-425 Screw-thread vials

Cat. #	Write-on Spot	Capacity	O.D.xL	Color	Qty.
V1-T	No	2 mL	11.6x32 mm	Clear	100/Box
V1-TL	Yes	2 mL	11.6x32 mm	Clear	100/Box
V1-A	No	2 mL	11.6x32 mm	Amber	100/Box
V1-AL	Yes	2 mL	11.6x32 mm	Amber	100/Box

9-425 Screw-thread vials

Cat. #	Write-on Spot	Capacity	O.D.xL	Color	Qty.
V2-T	No	2 mL	11.6x32 mm	Clear	100/Box
V2-TL	Yes	2 mL	11.6x32 mm	Clear	100/Box
V2-A	No	2 mL	11.6x32 mm	Amber	100/Box
V2-AL	Yes	2 mL	11.6x32 mm	Amber	100/Box

10-425 Screw-thread vials

Cat. #	Write-on Spot	Capacity	O.D.xL	Color	Qty.
V3-T	No	2 mL	11.6x32 mm	Clear	100/Box
V3-TL	Yes	2 mL	11.6x32 mm	Clear	100/Box
V3-A	No	2 mL	11.6x32 mm	Amber	100/Box
V3-AL	Yes	2 mL	11.6x32 mm	Amber	100/Box


11mm Snap-top vials

Cat.#	Write-on Spot	Capacity	O.D.xL	Color	Qty.
V4-T	No	2 mL	11.6x32 mm	Clear	100/Box
V4-TL	Yes	2 mL	11.6x32 mm	Clear	100/Box
V4-A	No	2 mL	11.6x32 mm	Amber	100/Box
V4-AL	Yes	2 mL	11.6x32 mm	Amber	100/Box


11mm Crimp-top vials

Cat.#	Write-on Spot	Capacity	O.D.xL	Color	Qty.
V5-T	No	2 mL	11.6x32 mm	Clear	100/Box
V5-TL	Yes	2 mL	11.6x32 mm	Clear	100/Box
V5-A	No	2 mL	11.6x32 mm	Amber	100/Box
V5-AL	Yes	2 mL	11.6x32 mm	Amber	100/Box


Crimp-top headspace vials

Cat.#	Write-on Spot	Capacity	O.D.xL	Color	Qty.
V8-10T	No	10 mL	22.5x46 mm	Clear	100/Box
V8-20T	No	20 mL	22.5x75.5 mm	Clear	100/Box


Storage Vials

Cat.#	Write-on Spot	Capacity	O.D.xL	Color	Qty.
V9-10T	No	10 mL	22.5x46 mm	Clear	100/Box
V9-20T	No	20 mL	22.5x75.5 mm	Clear	100/Box


Micro-inserts

Cat.#	Description	Capacity	O.D.xL	Qty.
SI-1	Glass inserts with mandrel interior and polypropylene feet, for 8-425 screw-thread vials	150 µL	5x29 mm	100/Box
SI-2	Glass inserts with mandrel interior and polypropylene feet, for 9-425 screw-thread vials	250 µL	5.7x29 mm	100/Box
SI-3	Flat-bottom glass inserts, for 8-425 screw-thread vials	250 µL	5x31 mm	100/Box
SI-4	Flat-bottom glass inserts, for 9-425 screw-thread vials	300 µL	6x31 mm	100/Box

Syringe Filters

biocomma® syringe filters are suitable for solution preparation, sterilization filtration and biological sample preparation.



Mixed Cellulose Ester (MCE) Syringe Filters

Cat.#	Description	Qty.
SF130-22-MCE	MCE / Φ 13 mm / 0.22 μ m / Hydrophilic	100/Box
SF130-45-MCE	MCE / Φ 13 mm / 0.45 μ m / Hydrophilic	100/Box
SF250-22-MCE	MCE / Φ 25 mm / 0.22 μ m / Hydrophilic	100/Box
SF250-45-MCE	MCE / Φ 25 mm / 0.45 μ m / Hydrophilic	100/Box

Cellulose Acetate (CA) Syringe Filters

Cat.#	Description	Qty.
SF130-22-CA	CA / Φ 13 mm / 0.22 μ m / Hydrophilic	100/Box
SF130-45-CA	CA / Φ 13 mm / 0.45 μ m / Hydrophilic	100/Box
SF250-22-CA	CA / Φ 25 mm / 0.22 μ m / Hydrophilic	100/Box
SF250-45-CA	CA / Φ 25 mm / 0.45 μ m / Hydrophilic	100/Box

Hydrophilic Polytetrafluoroethylene (PTFE) Syringe Filters

Cat.#	Description	Qty.
SF130-22-PTFE-HL	PTFE / Φ 13 mm / 0.22 μ m / Hydrophilic	100/Box
SF130-45-PTFE-HL	PTFE / Φ 13 mm / 0.45 μ m / Hydrophilic	100/Box
SF250-22-PTFE-HL	PTFE / Φ 25 mm / 0.22 μ m / Hydrophilic	100/Box
SF250-45-PTFE-HL	PTFE / Φ 25 mm / 0.45 μ m / Hydrophilic	100/Box

Hydrophilic Polyvinylidene Fluoride (PVDF) Syringe Filters

Cat.#	Description	Qty.
SF130-22-PVDF-HL	PVDF / Φ 13 mm / 0.22 μ m / Hydrophilic	100/Box
SF130-45-PVDF-HL	PVDF / Φ 13 mm / 0.45 μ m / Hydrophilic	100/Box
SF250-22-PVDF-HL	PVDF / Φ 25 mm / 0.22 μ m / Hydrophilic	100/Box
SF250-45-PVDF-HL	PVDF / Φ 25 mm / 0.45 μ m / Hydrophilic	100/Box

Polyethersulfone (PES) Syringe Filters

Cat.#	Description	Qty.
SF130-22-PES	PES / Φ 13 mm / 0.22 μ m / Hydrophilic	100/Box
SF130-45-PES	PES / Φ 13 mm / 0.45 μ m / Hydrophilic	100/Box
SF250-22-PES	PES / Φ 25 mm / 0.22 μ m / Hydrophilic	100/Box
SF250-45-PES	PES / Φ 25 mm / 0.45 μ m / Hydrophilic	100/Box

Polytetrafluoroethylene (PTFE) Syringe Filters

Cat.#	Description	Qty.
SF130-22-PTFE	PTFE / Φ 13 mm / 0.22 μ m / Hydrophobic	100/Box
SF130-45-PTFE	PTFE / Φ 13 mm / 0.45 μ m / Hydrophobic	100/Box
SF250-22-PTFE	PTFE / Φ 25 mm / 0.22 μ m / Hydrophobic	100/Box
SF250-45-PTFE	PTFE / Φ 25 mm / 0.45 μ m / Hydrophobic	100/Box

Nylon Syringe Filters

Cat.#	Description	Qty.
SF130-22-NL	Nylon / Φ 13 mm / 0.22 μ m / Hydrophobic	100/Box
SF130-45-NL	Nylon / Φ 13 mm / 0.45 μ m / Hydrophobic	100/Box
SF250-22-NL	Nylon / Φ 25 mm / 0.22 μ m / Hydrophobic	100/Box
SF250-45-NL	Nylon / Φ 25 mm / 0.45 μ m / Hydrophobic	100/Box

Polyvinylidene Fluoride (PVDF) Syringe Filters

Cat.#	Description	Qty.
SF130-22-PVDF	PVDF / Φ 13 mm / 0.22 μ m / Hydrophobic	100/Box
SF130-45-PVDF	PVDF / Φ 13 mm / 0.45 μ m / Hydrophobic	100/Box
SF250-22-PVDF	PVDF / Φ 25 mm / 0.22 μ m / Hydrophobic	100/Box
SF250-45-PVDF	PVDF / Φ 25 mm / 0.45 μ m / Hydrophobic	100/Box

Note: For sterilized syringe filters, please contact us.

Microfiltration Membranes

biocomma® microfiltration membranes are used in sample filtration during analysis process in laboratories.



Mixed Cellulosic Ester (MCE) Microfiltration Membrane

Cat. #	Description	Qty.
MF047-22-MCE	MCE / Φ 47 mm / 0.22 μ m	200/Box
MF047-45-MCE	MCE / Φ 47 mm / 0.45 μ m	200/Box

Cellulose Acetate (CA) Microfiltration Membrane

Cat. #	Description	Qty.
MF047-22-CA	CA/ Φ 47 mm/0.22 μ m	200/Box
MF047-45-CA	CA/ Φ 47 mm/0.45 μ m	200/Box

Polyethersulfone (PES) Microfiltration Membrane

Cat. #	Description	Qty.
MF047-22-PES	PES/ Φ 47 mm/0.22 μ m	200/Box
MF047-45-PES	PES/ Φ 47 mm/0.45 μ m	200/Box

Hydrophilic Polytetrafluoroethylene (PTFE) Microfiltration Membrane

Cat. #	Description	Qty.
MF047-22-PTFE-HL	PTFE/ Φ 47 mm/0.22 μ m	200/Box
MF047-45-PTFE-HL	PTFE/ Φ 47 mm/0.45 μ m	200/Box

Nylon Microfiltration Membrane

Cat. #	Description	Qty.
MF047-22-NL	Nylon / Φ 47 mm / 0.22 μ m	200/Box
MF047-45-NL	Nylon / Φ 47 mm / 0.45 μ m	200/Box

Polyvinylidene Fluoride (PVDF) Microfiltration Membrane

Cat. #	Description	Qty.
MF047-22-PVDF	PVDF / Φ 47 mm / 0.22 μ m	200/Box
MF047-45-PVDF	PVDF / Φ 47 mm / 0.45 μ m	200/Box

Polytetrafluoroethylene (PTFE) Microfiltration Membrane

Cat. #	Description	Qty.
MF047-22-PTFE	PTFE / Φ 47 mm / 0.22 μ m	200/Box
MF047-45-PTFE	PTFE / Φ 47 mm / 0.45 μ m	200/Box

Note: For microfiltration membranes of other specs, please contact us.

Solvent Compatibility of UHMW-PE/PP

Substance				Solvent Compatibility	
				UHMW-PE	PP
Acetic acid,10%	Calcium carbonate	Maleic acid,50%	Propionic acid,50%	✓	
Acetic acid,100%(glacial)	Calcium chloride	Menthol	Propionic acid,100%		
Acetic anhydride	Calcium hypochlorite	Mercury	Propylene glycol		
Acetone	Calcium nitrate , 50%	Mercuric Chloride(corrosive sublimate)	Sea Water		
Acids,aromatic	Camphor	Methanol	Silicic acid		
Acrylonitrile	Carbonic acid	Methoxybutanol	Silicone oil		
Allyl alcohol,96%	Castor oil	Methyl ethyl ketone	Silver nitrate		
Aluminum Chloride	Caustic potash	Methyl glycol	Sodium benzoate		
Alum	Caustic soda	Mineral oils	Sodium borate		
Ammonia	Chloroacetic acid (mono)	Monochloroacetic acid	Sodium carbonate		
Ammonia,gaseous	Chloroethanol	Monochloroacetic acid ethyl ester	Sodium chloride		
Ammonia salts	Chromic acid , 80%	Morpholine	Sodium nitrate		
Amyl acetate	Citric acid	Motor oils,HD oli	Sodium peroxide,10%		
Aniline	Clophen® A50 and A60	Naphtha	Sodium sulphide		
Antimony trichloride	Coconut oil	Naphthalene	Sodium thiosulphate		
Beer	Common salts(aqueous,saturated)	Nickel salts	Speraceti		
Beeswax	Copper salts	Nitric acid,25%	Starch		
Benzaldehyde	Corn oil	Nitrobenzene	Stearic acid		
Benzenesulphonic acid	Creosote	o-Nitrotoluene	Succinic acid , 50%		
Benzoic acid	Cresol	Nitrous gases	Sulphates		
Borax	Cyclohexane	Oils (vegetableand animal)	Sulphur		
Boric acid	Cyclohexanol	Oleic acid,concentrated	Sulphur dioxide(dry)		
Brine(saturated)	Cyclohexanone	Perchloric acid,20%	Sulphur dioxide(moist)		
Butanol	Detergents,synthetic	Perchloric acid,50%	Sulphuric acid 10%		
Butoxyl(Methoxy butyl acetate)	Dibutyl ether	Perchloric acid,70%	Sulphuric acid 50%		
Butyle glycol	Dibutyl phthalate	Petrol/Benzene mixture	Sulphuric acid 98%		
Butyric acid	Dichloroacetic acid , 50%	Petroleum ether	Sulphurous acid		
Dichloroacetic acid, 100%	Gylcolic acid,55%	Phenol	Sulphuryl Chloride		
Dichloroacetic acid,methyl ester	Gylcolic acid,70%	Phosphates	Tallow		
Diisobutyl ketone	Glycolic acid butyl ester	Phosphoric acid,25%	Tannic acid , 10%		
Dimethylamine	Heating oil	Phosphoric acid,50%	Tartatic acid		
Dimethyl formamide	Hydraulic fluid	Phosphoric acid,95%	Transformer oil		
Dimethyl sulphoxide	Hydrazine hydrate	Phosphorus oxychloride	Tributyl phosphate		
Dioxane	Hydrobromic acid,50%	Phosphorus pentoxide	Trichloroacetic acid , 50%		
Emulsifiers	Hydrochloric acid,all concentrations	Phosphorus trichloride	Trichloroacetic acid , 100%		
Epichlorhydrin	Hydrochloric acid gas,(dry and moist)	Photographic developers	Tricresyl phosphate		
Esters,aliphatic	Hydrocyanic acid	Phtalic acid,50%	Triethanolamine		
Ethanol,96%	Hydrofluoric acid , 40%	Polyglycols	Urea,33%		
Ethyl acetate	Hydrofluoric acid , 70%	Glycolic acid butyl esher	Yeast		
Ethylenediaminete-taacetic acid	Hydrogen peroxide,30%	Potassium chloride	Zinc chloride		
Ethylene glycol	Hydrogen peroxide , 90%	Potassium bichromate , 40%			
Fatty acids(C6)	Hydrogen sulphide	Potassium cyanide(aqueous,saturated)			
Ferric chloride	Hydrosuphite(10%,aqueous)	Potassium permanganate			
Formaldehyde (40% aqueous)	Iodine tincture,DAB 6	Potassium hydroxide 30% (aqueous)			
Formic acid	Isooctane	Sodium chlorite,50% Sodium chlorite,50%			
Fruit juices	Isopropanol	Sodium dodecylbenzene-sulphonate			
Fruit pulp	Keroseme	Sodium hydroxide (30%,aqueous)			
Furfuryl alcohol	Ketones	Sodium hypochlorite,all concentrations			
Gasoline	Lactic acid				
Gelatine	Linseed oil				
Glycerine	Magnesium chloride				
Glycol(concentrated)	Maleic acid				



Substance				Solvent Compatibility	
				UHMW-PE	PP
Anisole	Nitric acid,50%	Ether	Tetrachloroethane	✗	
Benzene	Essential oil	Ethylene chloride (Dichloroethane)	Tetrahydrofuran		
Benzoyl chloride	Pseudocumene	Halothane	Toluene		
o-Dichlorobenzene	Sodium peroxide (saturated)	Isopropyl ether	White spirit		
p-Dichlorobenzene	Spindle oil	Methylene chloride			
Diethyl ether	Tetrabromoethane				
Acetaldehyde	Fluosilicic acid			✓	✗
Butyl acetate	Petrol				
Chloral hydrate	Pyridine				
Diesel fuel oil					
Carbon disulphide	Ozone			✗	✓
Chlorobenzene	Sodium chlorite bleach				
Methylcyclohexane	Vaseline®				
Dichloroethylene				-	✓
Aqua regia	Trichlorethylene			-	✗
Chloroform					
Oxalic acid,50%				✓	
Bromine,liquid	Chlorosulphonic acid				
Bromochloromethane	Fluorine				
Carbon tetrachloride	Oleum				
Chlorine,liquid					

Abbreviations

Abbr.	Full Name
UHMW-PE	Ultra-high molecular weight polyethylene
PP	polypropylene
PTFE	Polytetrafluoroethylene
SPE	Solid-Phase extraction
AC	Affinity chromatography
Oligo	Oligonucleotide
CPG	Controlled porous glass
SPPS	Solid phase peptide synthesis

ISO9001:2015 Certificate

Zertifikat

Prüfungsnorm **ISO 9001:2015**
Zertifikat-Registrier-Nr. 01 100 1632461


Unternehmen: **BIOCOMMA BIOTECH CO., LTD.**
Vereinheitlichter Sozialer Kredit Code: 91440300791729139X
Registrierungs-Adresse: 101~106, Block 12, Zhonghaixin Innovation Industrial Zone, No. 12 of Ganli Six Road, Ganli Industrial Zone, Buji Street, Longgang District, Shenzhen City, Guangdong Province 518114, V. R. China (There are business activities engaged in 601#, Plant 4, Juyin Science and Technology Industrial Zone, Buji Street, Longgang District)
Betriebs-Adresse: wie oben

Geltungsbereich: **Forschung und Entwicklung, Herstellung und Verkauf von porösen Plastikfiltern, Kits für die Analyse und Trennung**

Durch ein Audit wurde der Nachweis erbracht, dass die Forderungen der ISO 9001:2015 erfüllt sind.




Gültigkeit: **Dieses Zertifikat ist gültig vom 20.12.2016 bis zum 19.12.2019.**
Informationen über dieses Zertifikat können auf der offiziellen CNCA Webseite <http://www.cnca.gov.cn> gesucht werden.

20.12.2016



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Certificate

Standard **ISO 9001:2015**
Certificate Registr. No. 01 100 1632461


Certificate Holder: **BIOCOMMA BIOTECH CO., LTD.**
Unified Social Credit Code: 91440300791729139X
Registration Address: 101~106, Block 12, Zhonghaixin Innovation Industrial Zone, No. 12 of Ganli Six Road, Ganli Industrial Zone, Buji Street, Longgang District, Shenzhen City, Guangdong Province 518114, P. R. China (There are business activities engaged in 601#, Plant 4, Juyin Science and Technology Industrial Zone, Buji Street, Longgang District)
Operation Address: same as above

Scope: **Research & Development, Manufacturing and Sales of Porous Plastic Filters, Kits for Analysis and Separation**

Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met.




Validity: **The certificate is valid from 2016-12-20 until 2019-12-19.**
This certificate information can be searched on CNCA official website <http://www.cnca.gov.cn>

2016-12-20



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