biocomma

Bioprocess Product Catalog

Biocomma Limited Huizhou Production Base

Company Profile

Biocomma's mission is providing innovative consumables and comprehensive solutions based on innovations of materials to global clients in sciences and healthcare fields.

Since Biocomma established in 2006, we continue to increase R&D and engineering investment to build a technical innovation and industrialization platform which focus on polymer filtration materials, adsorption materials, and biological membrane materials. Also, technical breakthrough has been realized in related materials

Biocomma's accumulation of years of consumable categories covers the collection, transportation, filtration, separation, purification, preservation, culture, etc. In addition, we also lay out respiratory care and disposable sterile medical consumables. Our products can be widely applied to scientific research, analysis and testing, drug research and development, in vitro diagnosis, medical rehabilitation and other fields.

After years of growth and development, Biocomma's products have been widely recognized by the market. Now we have become an important supplier of laboratory filters, gene synthesis tools, sample collection and other consumable products. We established close cooperation with dozens of industry leaders worldwide, and our business covers more than 50 countries and regions.

GENOSO

CONTENTS

CommaClean® Container

CommaClean® series products are committed to providing DNase/RNase-free, pyrogen-free, and precipitation-free biopharmaceutical packaging options. Biocomma has a GMP workshop over 4,000 ㎡ and an independent experimental center of 800 ㎡ . The production is strictly in accordance with GMP standards, which meet the needs of biopharmaceutical companies or clean laboratories in cell therapy, gene therapy, antibodies, vaccines, and other biological fields.

CommaClean® Erlenmeyer Flasks

CommaClean® Erlenmeyer Flasks are ideal for suspension cell culture and storage such as bacteria, fungi, animal and plant cells. The disposable flask is an economical tool comparing to traditional flasks, plates and dishes.

Features

- The body is made of medical polycarbonate (PC), which meets the requirements of ISO10993 USP (661).
- The advantages of PC are high transparency, strong impact resistance, oxidation resistance, and high temperature resistance up to 121 °C.
- Clear and accurate scale on the outer wall is convenient to read the volume.
- Optional sealed cap or vent cap with a 0.22μm PTFE membrane which is air-permeable and allows gas exchange without contamination.
- Automatically produced in self-owned GMP workshop with good consistency, stable supply, and cost control.
- DNase/RNase-free, pyrogen-free, and precipitation-free.
- Individual packaged and radiation sterilized, highest Sterility Assurance Level (SAL) of 10^{-6}.
- Suitable for small-scale development, cell culture scale-up and other training stages.

125mL, 250mL, 500mL, 1L

Cap
Sealed cap and vent cap are optional.

Bottle neck
Anti-slip design prevents slipping while holding.

Scale
Clear graduation easy to read the volume.

Bottom
Concave streamline design is more stable in use.

Sealing Ring
The integrated design of the internal molding inside the closure fits the oblique edge perfectly without pad wear, creases or pollution.

Thread
Taper thread on the bottle mouth and cap is more smooth and easy to tighten, rather than low quality round thread.

Good Sealing
Unlined cap and neck has anti-decentration stop design to make sure the cap fits body perfectly.
Unique T-shaped thread structure further guarantees the tightness.

Body
Highly transparent body (Light transmittance ≧ 80%).Uniform wall thickness, conical appearance designed to resist compression.

Cat. #	Description	Qty.
23101	125ml Erlenmeyer Culture Flasks with vent cap	24 pcs/pk
23102	125ml Erlenmeyer Culture Flasks with sealed cap	24 pcs/pk
23201	250ml Erlenmeyer Culture Flasks with vent cap	12 pcs/pk
23202	250ml Erlenmeyer Culture Flasks with sealed cap	12 pcs/pk
23301	500ml Erlenmeyer Culture Flasks with vent cap	12 pcs/pk
23302	500ml Erlenmeyer Culture Flasks with sealed cap	12 pcs/pk
23401	1L Erlenmeyer Culture Flasks with vent cap	12 pcs/pk
23402	1L Erlenmeyer Culture Flasks with sealed cap	12 pcs/pk

2L, 3L

Cap
Sealed cap and vent cap are optional.
Anti-drop structure on inner lining.

Bottle neck
Anti-slip design prevents slipping while holding.

Scale
Clear graduation is easy to read the volume.

Bottom
Concave streamline design is more stable in use.
Baffled bottom to increase gas exchange efficiency.

Thread
Double screw thread design makes smooth and easy tightening.

Good Sealing
Medical-grade material lining (sealing pads)effectively guarantee the leak-proof system.

Body
Highly transparent body (Light transmittance ≧ 80%).
Uniform wall thickness, conical appearance designed to resist compression.
Label frame for easy marking of the identification number.

	Cat. #	Description	Qty.
	23501	2L Erlenmeyer Culture Flasks with vent cap	6 pcs/pk
	23502	2L Erlenmeyer Culture Flasks with sealed cap	6 pcs/pk
	23601	3L Erlenmeyer Culture Flasks with vent cap	4 pcs/pk
	23602	3L Erlenmeyer Culture Flasks with sealed cap	4 pcs/pk

5L

Cap
Sealed cap and vent cap are optional.
Anti-drop structure on inner lining.

Bottle neck
Anti-slip design prevents slipping while holding.
Equipped with a liquid diversion groove to prevent liquid accumulation.

Scale
Clear graduation easy to read the volume.

Bottom
Concave streamline design is more stable in use.

Sealing Ring
The integrated design of the internal molding inside the closure fits the oblique edge perfectly without pad wear, creases or pollution.

Thread
Double screw thread design makes smooth and easy tightening.

Good Sealing
Medical-grade material lining (sealing pads)
effectively guarantee the leak-proof system.

Body
Highly transparent body (Light transmittance ≧ 80%).
Uniform wall thickness, conical appearance designed to resist compression.
Label frame for easy marking of the identification number.

Cat. #	Description	Qty.
23701	5L Erlenmeyer Culture Flasks with vent cap	4 pcs/pk
23702	5L Erlenmeyer Culture Flasks with sealed cap	4 pcs/pk

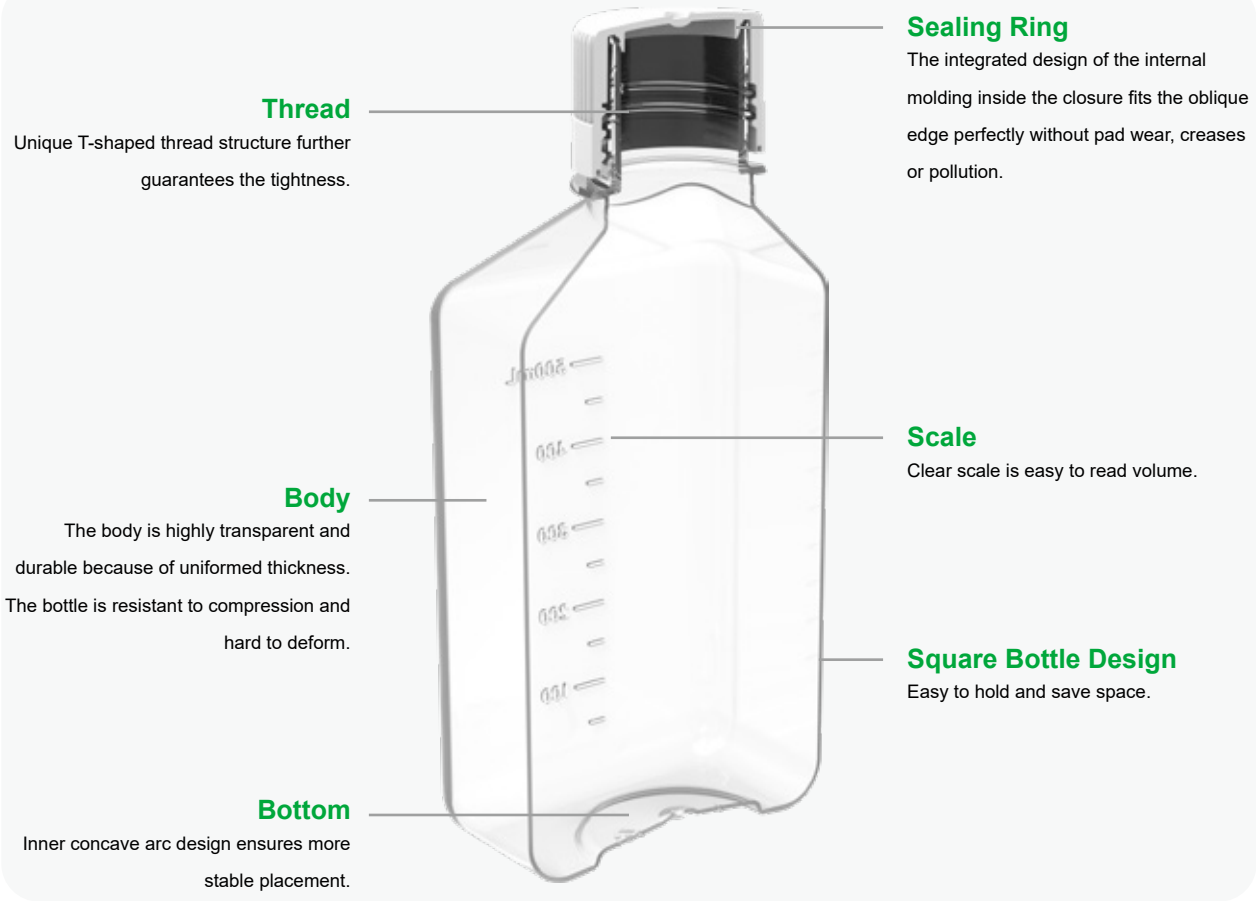
Notes

1. The amount of medium should be well controlled. The recommended working volume of CommaClean® Erlenmeyer Flasks of 3L and below is 30%-40% of the volume, and 50%-70% is recommended above 3L.
2. The shaker speed required by CommaClean® Erlenmeyer Flasks is determined by working volume, shaker amplitude (orbital diameter), cell line, type of medium, baffled bottom or not , and many other factors.
   The recommended shaker speed for CommaClean® Erlenmeyer Flasks is 75rpm-125rpm generally.
3. Pay attention to the water level for the shaker with liquid vibration and the temperature for the shaker with gas vibration.

CommaClean®
Square Media Bottles

Features

- Made of, light weight, and anti-crushing PET
- Highly transparent and thickened bottle body is easy to observe
- Good chemical stability is suitable for storing high-clean reagents, granular standard substances and standards
- Founded bottle body conforms to ergonomics, and easy to hold
- Unique T-shaped thread structure to ensure good sealing
- Strict leak test to ensure no leakage during air transportation
- Produced in Class 100,000 GMP workshop
- Gamma ray sterilization, up to 10-6 Sterility Assurance Level (SAL)
- Strict quality control on raw material and products to meet biological testing standards
- Used to pack and transport liquid medium, buffer and serum
- Pyrogen free



Applications

CommaClean® Square Media Bottles are suitable for storage or transportation of reagents, especially for production and storage of cell culture medium, cell serum, sterile buffer and other reagents.

All caps are universal. Also, universal for the most manufacturers in the market.

Injection, stretch and blow molding at one time to ensure good sealing.

Ergonomic founded design is easy to hold and save space.

Good consistency of products.

Cat. #	Volume (mL)	Length (mm)	Width (mm)	Height (mm)	Diameter (mm)	Weight (g)	Qty.
22103	50	40	40	82	22	18	72 Pcs/PK 5 PK/Ctn.
22203	125	54	54	108	28	46	25 Pcs/PK 4 PK/Ctn.
22303	250	59	59	146	28	54	30 Pcs/PK 2 PK/Ctn.
22401	500	76	76	175	28	87	24 Pcs/PK, 2 PK/Ctn.
22503	1000	92	92	216.5	28	114	24 Pcs/PK, 2 PK/Ctn.

CommaSep®
Ready to Use Reagents

CommaSep® series products are committed to providing ready-to-use reagents laboratory. The biological buffers and cell culture media in bottle or easy tear packets ease experiments and save time and costs.

CommaSep®
Biological Buffers

biocomma® Biological Buffers have a complete range and accurate quantification, which are ideal reagent for standard biological experiments. The biological buffers can be applied to cell culture, immunohistochemistry (IHC), Western Blot, enzyme-linked immunosorbent assay (ELISA), in situ hybridization, immunodetection washing solutions, antibody dilutions, and molecular cloning fields.

Features

- Convenience: Ready-to-use, no configuration required, sterilized by 0.1 μm filtration
- Professional: Professional production technology, completely mixed, GMP standard, traceable throughout the process
- Reproducibility: Small batch-to-batch variation
- Stable: Provide solution stability

Ordering Information

Category	Cat. #	Description	Qty.
PBS	PBS-EC500	PBS Buffer, pH 7.4, 1×	500mL
	PBS-EC510	PBS Buffer, pH 7.4, 10×	500mL
	PBS-EC520	PBS Buffer, pH 7.4, 20×	500mL
PBST	PBST-E500	PBS Tween-20 Buffer, 1×	500mL
	PBST-E510	PBS Tween-20 Buffer, 10×	500mL
DPBS	DPBS-E500	DPBS Buffer, no calcium, no magnesium, 1×	500mL
	DPBS-E500-CM	DPBS Buffer, calcium, magnesium, 1×	500mL
TBS	TBS-E500	TBS Buffer, 1×	500mL
	TBS-E510	TBS Buffer, 10×	500mL
	TBS-E520	TBS Buffer, 20×	500mL
TBST	TBST-E500	TBS Tween-20 Buffer, 1×	500mL
	TBST-E510	TBS Tween-20 Buffer, 10×	500mL
	TBST-E520	TBS Tween-20 Buffer, 20×	500mL
TG	TG-E500	Tris-Glycine Buffer, 1×	500mL
	TG-E510	Tris-Glycine Buffer, 10×	500mL
TE	TE-E500	Tris-EDTA Buffer, 1×	500mL
	TE-E510	Tris-EDTA Buffer, 10×	500mL
	TE-E520	Tris-EDTA Buffer, 20×	500mL
TGS	TGS-E500	Tris-Glycine SDS Buffer, 1×	500mL
	TGS-E510	Tris-Glycine SDS Buffer, 10×	500mL
WTB	WTB-E500	Western Transfer Buffer, 1×	500mL
	WTB-E510	Western Transfer Buffer, 10×	500mL
	WTB-E520	Western Transfer Buffer, 20×	500mL

CommaSep®
Phosphate Buffered Saline (PBS) Powder

CommaSep® PBS Powder has stable quality and good batch-to-batch variation to meet the large quantities needs of laboratories.

Skip proportioning, weighing, and pH adjustment

Making buffer is as easy as making coffee

Cat. #	Description	Qty.
PBS-50	PBS: 10mM Phosphate, 137 mM NaCl, 2.7 mM KCl, pH 7.4	1 L × 50 Pcs/PK
PBST-50	PBS buffer with Tween-20: 10 Mm Phosphate，137 Mm NaCl, 2.7mM KCl 0.05% Tween-20,pH 7.4	1 L × 50 Pcs/PK
DPBS-50	DPBS Buffer: 10 mM Phosphate, 138mM NaCl, 2.67 mM KCl, pH 7.4	1 L × 50 Pcs/PK
TBS-50	TBS Buffer: 50mM Tris-HCl, 138 mM NaCl,2.7 mM KCl, pH 8.0	1 L × 50 Pcs/PK
TBST-50	TBS Buffer with Tween-20: 50 mM Tris-HCl, 138 mM NaCl, 2.7 mM KCl, 0.05% Tween-20, pH 8.0	1 L × 50 Pcs/PK
TG-50	Tris-Glycine Buffer: 25 mM Tris, 192 mM Glycine	1 L × 50 Pcs/PK
TGS-50	Tris-Glycine-SDS Buffer: 25 mM Tris, 192 mM Glycine，0.1%SDS	1 L × 50 Pcs/PK
TBE-50	Tris-Borate Buffer: 89 mM Tris-Borate, 2 mM EDTA	1 L × 50 Pcs/PK
MOPS-50	Tris-MOPS-SDS Buffer: 50 mM MOPS, 50 mM Tris, 0.1% SDS, 1 mM EDTA	1 L × 50 Pcs/PK
MES-50	Tris-MES-SDS Buffer: 50 mM MES, 50 mM Tris, 0.1% SDS, 1 mM EDTA	1 L × 50 Pcs/PK
WTB-50	Western Blot Transfer Buffer: 48 mM Tris, 39 mM Glycine,1.2 mM SDS	1 L × 50 Pcs/PK
TE-50	Tris-EDTA Buffer: 100 mM Tris-HCl，10 mM EDTA，pH7.4	1 L × 50 Pcs/PK
EB-50	EDTA Buffer (pH8.0): 50 mM EDTA, pH8.0	1 L × 50 Pcs/PK
SCC-50	SSC Buffer: 300 mM NaCl, 30 mM Trisodium citrate, pH7.0	1 L × 50 Pcs/PK
SCB-50	Citrate Buffer: 0.1M Citrate, pH 6.0 (Antigen Retrieval Reagent)	1 L × 50 Pcs/PK

biocomma®
Cell Culture Medium

biocomma® Cell Culture Medium contains amino acids, carbohydrates, vitamins, inorganic salt ions and other nutrients required for best cell growth state. The complete product range is suitable for the in vitro culture of various suspension and adherent mammalian cells, which is a standard medium for cell culture experiments.

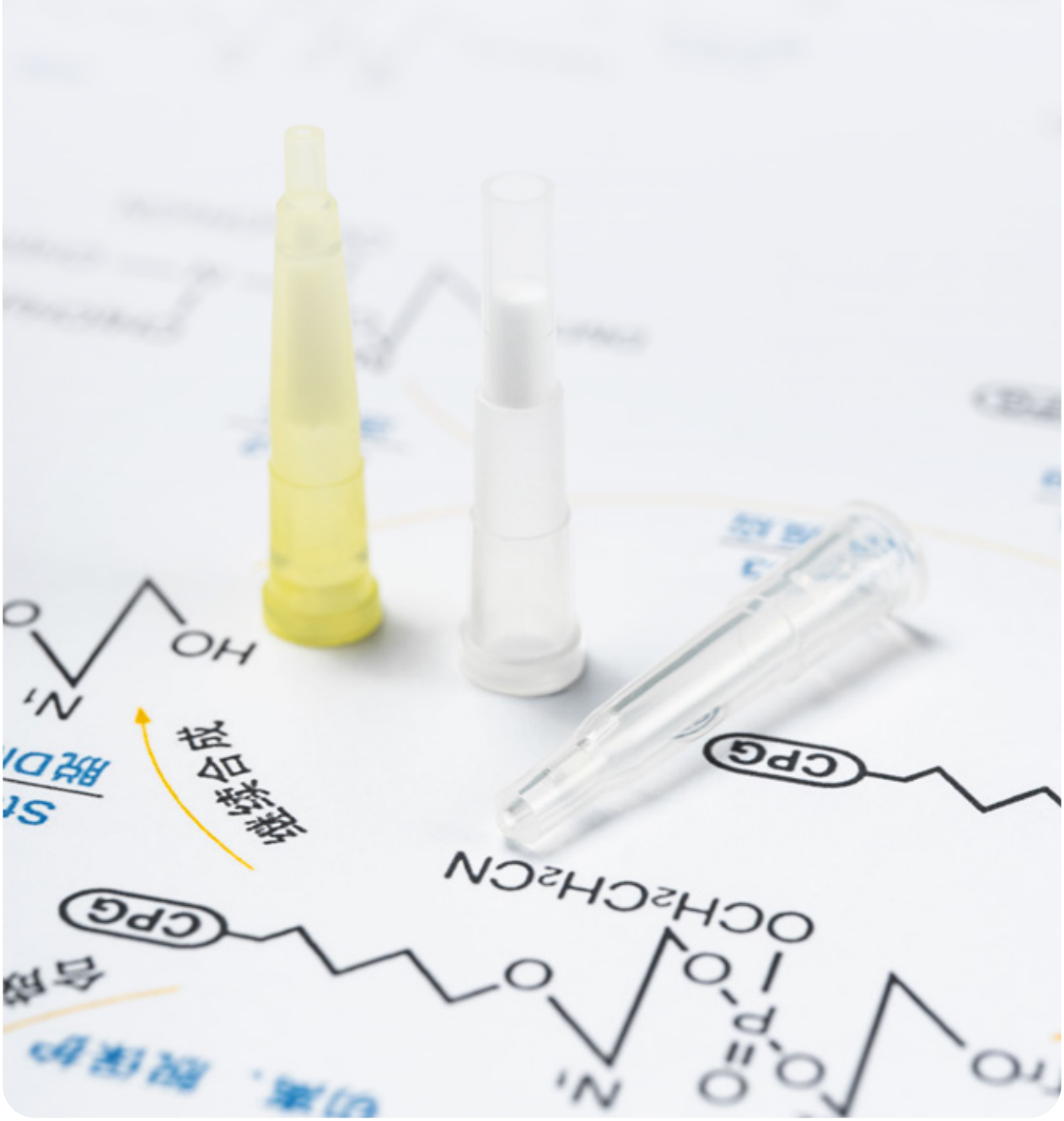
Features

- **Stable:** All raw materials are strictly screened, one-time bulk purchase.
- **Convenient:** Ready to use
- **Quality Control:** Each batch undergoes strict quality inspection to achieve traceability
- **Professional:** Years of R&D and production experience, ISO9001 certified and GMP standard

Cat. #	Description	Qty.
CM-RPM-E	RPMI 1640 Medium (1×)	500 mL
CM-RPM-E1	RPMI 1640 Medium (1×)	10x500 mL
CM-DMH-E	DMEM, High Glucose (1×)	500 mL
CM-DMH-E1	DMEM, High Glucose (1×)	10x500 mL
CM-DMF-E	DMEM/F-12 (1:1) (1×)	500 mL
CM-DMF-E1	DMEM/F-12 (1:1) (1×)	10x500 mL
CM-MEM-E	MEM (1×)	500 mL
CM-MEM-E1	MEM (1×)	10x500 mL

Embed™
Oligo Synthesis Solution

Biocomma entered the field of synthetic biology in 2013. Our Embed™ patented technology and advantages in industrialization of filter are committed to providing diverse tools for artificial DNA/RNA synthesis.



Universal CPG

Features

- The whole industry chain of naked CPG and Linker, with mature and stable technology
- Production capacity of 10 kg each batch, the most advanced platinum reaction vessel in the industry
- Better bonding process, effectively improving the purity of primer synthesis

Name	Cat. #	Pore Size	Qty.
Universal CPG	CPG500-BC	500Å	50g/Bottle
	CPG1000-BC	1000Å	50g/Bottle
	CPG2000-BC	2000Å	50g/Bottle
	CPG3000-BC	3000Å	50g/Bottle
Amino Icaa CPG	N-500-BC	500Å	50g/Bottle
	N-1000-BC	1000Å	50g/Bottle
Naked CPG	CPG500-N	500Å	50g/Bottle
	CPG1000-N	1000Å	50g/Bottle
	CPG2000-N	2000Å	50g/Bottle

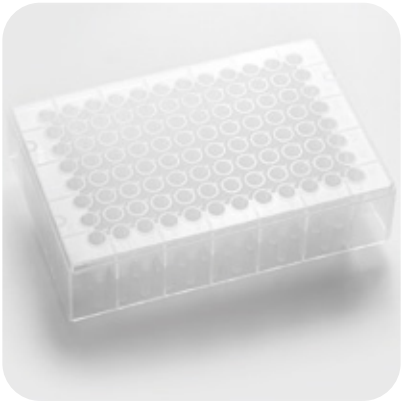
Embed™ 384-Well Synthesis Plates

Embed™ 384-Well Synthesis Plates are compatible with mainstream commercial synthesizers, such as Dr. Oligo 768 and OligoMaker 1536.

Cat. #	Synthesis Scale	CPG Pore Size	Qty.
DS384-003	3 nmol	1000 Å	12 Pcs/PK
DS384-003-2	3 nmol	2000 Å	12 Pcs/PK
DS384-005	5 nmol	1000 Å	12 Pcs/PK
DS384-010	10 nmol	1000 Å	12 Pcs/PK
DS384-010-2	10 nmol	2000 Å	12 Pcs/PK
DS384-025	25 nmol	1000 Å	12 Pcs/PK
DS384-025-2	25 nmol	2000 Å	12 Pcs/PK
DS384-030	30 nmol	1000 Å	12 Pcs/PK
DS384-050	50 nmol	1000 Å	12 Pcs/PK
DS384-100	100 nmol	1000 Å	12 Pcs/PK
DS384-200	200 nmol	1000 Å	12 Pcs/PK

Embed™ 96-Well Synthesis Plates for Dr. Oligo 192

Embed™ 96-Well Synthesis Plates are compatible with Dr. Oligo 192.



Cat. #	Synthesis Scale	CPG Pore Size	Qty.
DS96-0005	5 nmol	1000Å	7 Pcs/PK
DS96-0010	10 nmol	1000Å	7 Pcs/PK
DS96-0025	25 nmol	1000Å	7 Pcs/PK
DS96-0050	50 nmol	1000Å	7 Pcs/PK
DS96-0100	100 nmol	1000Å	7 Pcs/PK
DS96-0200	200 nmol	1000Å	7 Pcs/PK
DS96-0500	500 nmol	1000Å	7 Pcs/PK
DS96-0500-1	500 nmol	500Å	7 Pcs/PK
DS96-1000-1	1000 nmol	500Å	7 Pcs/PK
DS96-1000-G	1000 nmol	1000Å	7 Pcs/PK
DS96-1000-2	1000 nmol	2000Å	7 Pcs/PK
DS96-2000	2000 nmol	500Å	7 Pcs/PK
DS96-3000	3000 nmol	500Å	7 Pcs/PK

Embed™ 96-Well Synthesis Plates for MerMade 192

Embed™ 96-Well Synthesis Plates are compatible with MerMade 192.

Cat. #	Synthesis Scale	CPG Pore Size	Qty.
MS96-0002	2 nmol	1000Å	7 Pcs/PK
MS96-0005	5 nmol	1000Å	7 Pcs/PK
MS96-0010	10 nmol	1000Å	7 Pcs/PK
MS96-0025	25 nmol	1000Å	7 Pcs/PK
MS96-0050	50 nmol	1000Å	7 Pcs/PK
MS96-0100	100 nmol	1000Å	7 Pcs/PK
MS96-0200	200 nmol	1000Å	7 Pcs/PK
MS96-0500	500 nmol	500Å	7 Pcs/PK
MS96-1000	1000 nmol	500Å	7 Pcs/PK

Embed™ CPG Frits Universal Synthesis Columns

Embed™ CPG Frits Universal Synthesis Columns are compatible with mainstream of commercial synthesizers, such as MerMade 192, Dr. Oligo 192 and Oligo Maker 192.

Cat. #	Synthesis Scale	CPG Pore Size	Qty.
As0002	2 nmol	1000 Å	4000 Pcs/PK
AS0005	5 nmol	1000 Å	4000 Pcs/PK
DS0010	10 nmol	1000 Å	4000 Pcs/PK
DS0025	25 nmol	1000 Å	4000 Pcs/PK
DS0050	50 nmol	1000 Å	4000 Pcs/PK
DS0100	100 nmol	1000 Å	4000 Pcs/PK
DS0200	200 nmol	1000 Å	4000 Pcs/PK
DS0500	500 nmol	500 Å	4000 Pcs/PK
DS0500-1	500 nmol	1000 Å	4000 Pcs/PK
DS0500-2	500 nmol	2000 Å	4000 Pcs/PK
DS1000-1	1000 nmol	500 Å	4000 Pcs/PK
DS1000-G	1000 nmol	1000 Å	4000 Pcs/PK
DS1000-2	1000 nmol	2000 Å	4000 Pcs/PK
DS2000	2000 nmol	500 Å	4000 Pcs/PK
Ds3000	3000 nmol	500 Å	4000 Pcs/PK

First-Generation Oligo Synthesis Columns for ABI 3900

biocomma® First-Generation Oligo synthesis columns are compatible with ABI 3900 DNA synthesizer.

Cat. #	Synthesis Scale	CPG Pore Size	Qty.
DSI30100	100nmol	1000Å	4000 Pcs/PK
DSI30200	200nmol	1000Å	4000 Pcs/PK
DSI30500	500nmol	1000Å	4000 Pcs/PK
DSI31000	1000nmol	1000Å	4000 Pcs/PK
DSI32000	2000nmol	500Å	4000 Pcs/PK
DSI33000	3000nmol	500Å	4000 Pcs/PK
DSI30500-2	500nmol	2000Å	4000 Pcs/PK
DSI31000-2	1000nmol	2000Å	4000 Pcs/PK

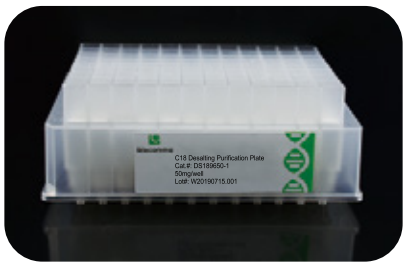
biocomma® First-Generation Oligo Synthesis Columns for MerMade Synthesizer

biocomma® First-Generation Oligo synthesis columns are compatible with MerMade 4, MerMade 6, MerMade 12, MerMade 48X DNA synthesizer.

Cat. #	Synthesis Scale	CPG Pore Size	Qty.
MSI30100	100 nmol	1000Å	500 Pcs/PK
MSI30200	200 nmol	1000Å	500 Pcs/PK
MSI30500	500 nmol	1000Å	500 Pcs/PK
MSI31000	1000 nmol	1000Å	500 Pcs/PK
MSI32000	2000 nmol	500Å	500 Pcs/PK

biocomma® C18 Desalting Purification Cartridges

After synthesis, oligonucleotides are released from solid support by treatment with alkaline solution. The resulting solution contains the anticipated full-length oligonucleotides as well as some failure sequences (error sequences), the amount of which depends on synthesis efficiency. In many applications such as PCR, these failure sequences compete with the full-length sequence, so they must be removed prior to use in order to improve yields of downstream applications.



The C18 desalting purification cartridge is packed with octadecyl (C18) bounded silica gel. The octadecyl groups are very hydrophobic and have strong retention for non-polar compounds. Thus DNA molecules can be retained while residual salts pass through, endowing you with the power to obtain high-purity DNA products, then use in downstream applications, including PCR and sequencing.

biocomma® C18 desalting purification cartridges/plate suit for purification of oligo below 60mer.

Cat. #	Description	Qty.
DC18150	C18 Desalting Purification Cartridge, 50 mg/1 mL	100 Pcs/Box
DC186500	C18 Desalting Purification Cartridge, 500 mg/6 mL	30 Pcs/Box
DC189650	C18 Desalting Purification Plate, 50mg/1.5mL/96well	1 Pc/Box
C1896-080	C18 Desalting Purification Plate, 80mg/2mL/96well	1 Pc/Box

RPC Purification Column/Plate

Through specific adsorption with DMT group, the purpose of removing invalid oligonucleotide fragments such as N-1 is achieved.

Cat. #	Description	Specification	Qty.
RPC150	RPC Purification Cartridges	50mg/1mL	100 Pcs/PK
RPC3100-1	RPC Purification Cartridges	100mg/3mL	50 Pcs/PK
RPC3300	RPC Purification Cartridges	300mg/3mL	50 Pcs/PK
RPC61000	RPC Purification Cartridges	1g/6mL	30 Pcs/PK
CORPC96150-1	96-Well RPC Purification Plate	150mg/1.5mL	1 Pc/PK

G25 Desalting Purification Cartridges

G-25 desalting purification cartridges is packed with gel filtration chromatography medium with dextran as the matrix, and the separation is achieved according to the molecular size of the separated substances through the molecular sieve effect of the network structure in the dextran. During chromatography, molecules larger than the pore size of the gel are blocked out of the gel phase and travel along the gaps between the gel particles, with the fastest migration speed, so they are eluted first.

Application

- Desalting and purification of crude oligonucleotide synthesis products
- Desalting of PAGE and HPLC purified oligonucleotides

Cat. #	Description	Qty.
DG25003	G-25 Purification Cartridges, 0.8 mL/3 mL	50 Pcs/Box
DG25006	G-25 Purification Cartridges, 2 mL/6 mL	40 Pcs/Box
DG25012	G-25 Purification Cartridges, 4 mL/12 mL	20 Pcs/Box
DG25012-1	G25 Centrifugal Desalting Purification Cartridges, 6 mL/12 mL	5 Pcs/Box

Nucleic Acid Purification

CommaXP® nucleic acid purification products are developed based on our porous plastics and separation material technology tooffer an innovative solution for life science research.

CommaXP® Plasmid Preparation Columns (Anion-exchange)

CommaXP® 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: equivalent to CsCl gradient centrifugation
- Suitable for high or low copy plasmids

Typical results

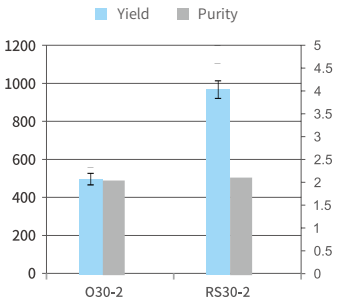
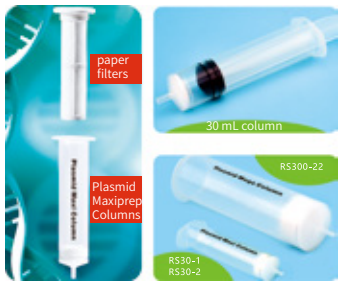
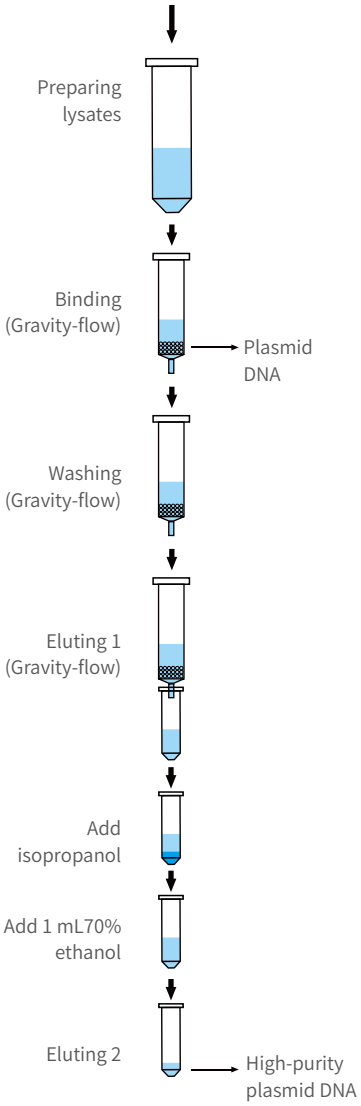


Figure 1: The yield and purity of plasmid DNA extracted using different columns

pUC19 was extracted from 80 mL overnight E.coli (DH5a) using columns O30-2 made by company O and RS30-2 made by Biocomma, and the final elution volume was 1.



Experimental overview



Cat. #	Description	Volume	Yield	Qty.
RS30-1	CommaPure™ Plasmid Maxiprep Columns	30 mL	300-600 μg	20 Pcs/PK
RS30-2	CommaPure™ Plasmid Maxiprep Columns	30 mL	500-1000 μg	20 Pcs/PK
RS300-22	CommaPure™ Plasmid Megaprep Columns	300 mL	5-10 mg	10 Pcs/PK
004410-M	Filtration Cartridge, 30 mL, with 2 frits and a plunger			50 Pcs/PK
004412-1	25 mL Paper filter			25 Pcs/PK
Custom Columns				

Note: 80-120 mL and 600-1000 mL bacteria culture are recommended for expected yield of 500-1000 μg and 5-10 mg by RS30-2 and RS300-22 respectively.

CommaXP®
24-Well Plasmid Extraction Plate

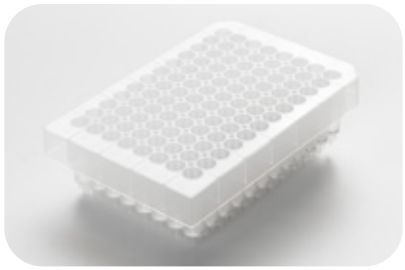
CommaXP® 24-Well Plasmid Extraction Plate uses anion exchange technology to prepare ultrapure plasmid DNA, which can be used for high-throughput extraction of plasmids or genomes. Positive pressure or centrifugation method is recommended.

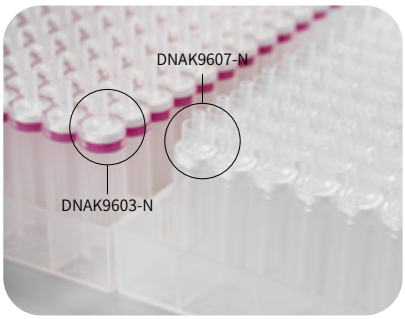
Features

- The volume of each well is 15 mL
- The maximum yield of each well is 500 µg
- 24-well plate system of high-throughput
- Compatible with biocomma® Positive Pressure 24 Processor

Cat. #	Description	Qty.
RS2401-2	24-Well Plasmid Extraction Plate, 15 ml each well, yield 300-500 µg	1 Pc/PK
24WP-S100-1	24-Well Collection Plate, 10 ml each well	50 Pc/PK

CommaXP® High-Throughput Extraction Plates





CommaXP® High-Throughput 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

Cat. #	Description	Volume	Yield	Qty.
DNAK9602-N	96-Well Extraction Plates, Full-Skirted	1.0 mL/well	~15 µg/well	4 Pcs/PK
DNAK9603-N	96-Well Extraction Plates, Semi-Skirted, pink fixing ring	1.5 mL/well	~15 µg/well	4 Pcs/PK
DNAK9607-N	96-Well Extraction Plates, Semi-Skirted, clear fixing ring	1.5 mL/well	~15 µg/well	4 Pcs/PK
DNAK3840	384-Well Extraction Plates	150 µL/well	~500 ng/well	4 Pcs/PK

CommaXP®
Nucleic Acid Purification Columns & Plates

CommaXP® 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 collection tube, silica membrane and fix ring.

Cat. #	Description	Volume	Elution volume	Qty.
RP20-A-N	RNA Extraction Columns, Capped spin columns, Green fixing rings	2 mL, 800 µL	~20 µg	500 Pcs/PK
NP20-A	GenomicDNAExtractionColumns,Cappedspincolumns,Greenfixingrings	2 mL, 800 µL	~20 µg	500 Pcs/PK
NP20	GenomicDNAExtractionColumns,Caplssspincolumns,Greenfixingrings	2 mL, 800 µL	~20 µg	500 Pcs/PK
NP30	PlasmidMiniprepColumns,Caplessspincolumns,Bluefixingrings	2 mL, 800 µL	~30 µg	500 Pcs/PK
NP30 -A	PlasmidMiniprepColumns,Cappedspincolumns,Bluefixingrings	2 mL, 800 µL	~30 µg	500 Pcs/PK
HP50	PlasmidMiniprepColumns,Large-scale,Caplessspincolumns,Whitefixingrings	2 mL, 800 µL	~80 µg	500 Pcs/PK
HP50 -A	PlasmidMiniprepColumns,Large-scale,Caplessspincolumns,Whitefixingrings	2 mL, 800 µL	~80 µg	500 Pcs/PK
NP05	DNACleanup&GelPurificationColumns,Minispincolumns,Caplessspin Columns,Whitefixingrings	2 mL, 800 µL	~10 µg	500 Pcs/PK
NP10	DNACleanup&GelPurificationColumns,Caplessspincolumns,Yellowfixingrings	2 mL, 800 µL	~10 µg	500 Pcs/PK
NP10-A	DNACleanup&GelPurificationColumns,Caplessspincolumns,Yellowfixingrings	2 mL, 800 µL	~10 µg	500 Pcs/PK
MP05	UltramicroDNAextractioncolumns,Cappedspincolumns,Whitefixingring	2 mL, 800 µL	~5 µg	500 Pcs/PK
NP100	PlasmidMidiprepColumns	15mL,4mL	~100µg	50 Pcs/PK
NP200	High-yieldPlasmidMidiprepColumns	15mL,4mL	~200µg	50 Pcs/PK
NP500	PlasmidMaxiprepColumns	50mL,18mL	~500µg	20 Pcs/PK
HP1000-P	High-yieldPlasmidMaxiprepColumns	50mL,18mL	~1mg	20 Pcs/PK
RS30-2	PlasmidMegaprepColumnsaxiprepColumns	30mL	500-1000µg	20 Pcs/PK
RS30-22	PlasmidGigaprepColumns	300mL	5-10mg	10 Pcs/PK
EP50-06	Large-VolumePlasmidMiniprepColumns,6mLextensiontubes,caplessspin columns,whitefixingrings	~80µg	50/Box	50Pcs/PK
EP50-06A	Large-VolumePlasmidMiniprepColumns,6mLextensiontubes,cappedspin columns,whitefixingrings	~80µg	50/Box	50Pcs/PK
EP50-12	Large-VolumePlasmidMiniprepColumns,12mLextensiontubes,caplessspin columns,whitefixingrings	~120µg	50/Box	50Pcs/PK
EP50-12A	Large-VolumePlasmidMiniprepColumns,12mLextensiontubes,cappedspin columns,whitefixingrings	~120µg	50/Box	50Pcs/PK
DNAK9602-N	96-WellExtractionPlates,Semi-Skirted	1.0mL/well	~15µg/well	4Pcs/PK
DNAK9607-N	96-wellExtractionPlates,Full-Skirted	1.5mL/well	~15µg/well	4Pcs/PK

Proteomics

Based on years of filtration and separation material technology, Biocomma provides a variety of reliable media to facilitate the purification of proteins and antibodies in from of single column and high-throughput plates to meet the different needs of customers.

Empty FPLC Columns

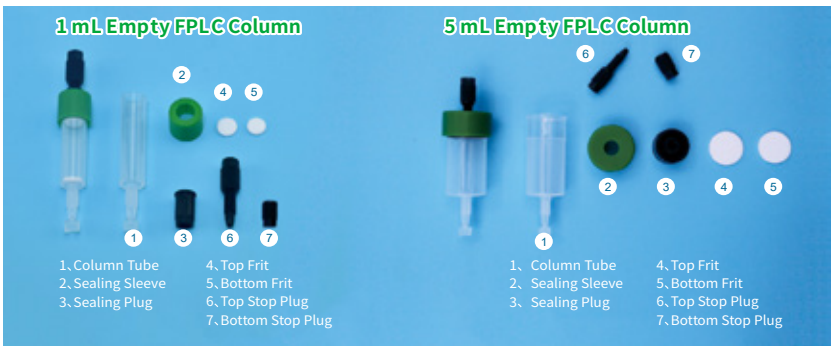
biocomma® Empty FPLC Columns are powerful tools for purification of tagged proteins, antibodies and other biomolecules. Researchers can pack columns with their own chromatographic media using different separation mechanisms (e.g., immunoaffinity, ion exchange, size exclusion, reverse phase) to perform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



Cat. #	Description	Maximum Pressure	Qty.
MPPC001-1	1 mL Empty FPLC Columns, Red Sealing Sleeve	1 MPa (10 bar, 145 psi)	50 Sets/PK
MPPC001-1-5T	1 mL Empty FPLC Columns, Red Sealing Sleeve		5 Sets/PK
MPPC001-2	1 mL Empty FPLC Columns, Green Sealing Sleeve		50 Sets/PK
MPPC001-2-5T	1 mL Empty FPLC Columns, Green Sealing Sleeve		5 Sets/PK
MPPC005-1	5 mL Empty FPLC Columns, Red Sealing Sleeve	0.5 MPa (5 bar, 72.5 psi)	50 Sets/PK
MPPC005-1-5T	5 mL Empty FPLC Columns, Red Sealing Sleeve		5 Sets/PK
MPPC005-2	5 mL Empty FPLC Columns, Green Sealing Sleeve		50 Sets/PK
MPPC005-2-5T	5 mL Empty FPLC Columns, Green Sealing Sleeve		5 Sets/PK
009808-1	1 mL FPLC Column Assembly Tool		1 Set/PK
009808-5	5 mL FPLC Column Assembly Tool		1 Set/PK
9114	1 mL FPLC Plunger		1 Pc/PK
9115	5 mL FPLC Plunger		1 Pc/Box

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 an-tibodies
- Desalting of nucleic acids, peptides and proteins
- Detection of mycotoxins

Cat. #	Description	Qty.
004201	1 mL Empty AC Columns	500 Pcs/Box
004202	3 mL Empty AC Columns	100 Pcs/Box
004202-N	3 mL Empty AC Columns, with Luer-Inlet Upper caps	100 Pcs/Box
004203	6 mL Empty AC Columns	100 Pcs/Box
004204	12 mL Empty AC Columns	100 Pcs/Box
004206	30 mL Empty AC Columns	50 Pcs/Box
004209	60 mL Empty AC Columns	25 Pcs/Box
004215	150 mL Empty AC Columns	15 Pcs/Box
004208	300 mL Empty AC Columns	10 Pcs/Box

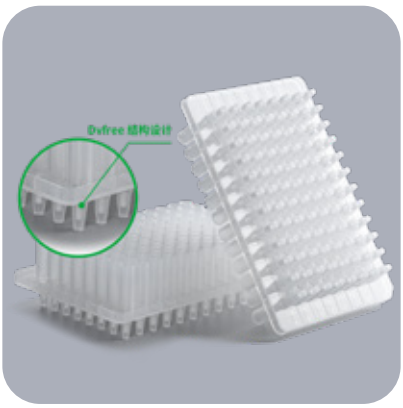
Note: The standard upper caps of empty AC columns are red, various colors like orange, white, blue and green are available in 1 mL and 3 mL columns.

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.

Cat. #	Description	Qty.
007400	2 mL Empty Spin Columns, Including Outer Tubes, Inner Tubes (with Lids), UHMW-PE Frits and Fixing Rings	1000 Pcs/PK
007410	2 mL Empty Spin Columns, Including Outer Tubes (with Lids), Inner Tubes, UHMW-PE Frits and Fixing Rings	1000 Pcs/PK
007700	2 mL Empty Micro Spin Columns, Including Outer Tubes (with Lids), Inner Tubes, UHMW-PE Frits and Fixing Rings	1000 Pcs/PK
FC002	2.0 mL Empty Spin Columns, including capped outer tubes, mini inner tubes, high-speed centrifuge membrane, microfiltration membrane and fixing rings	1000 Pcs/PK
FC0015	1.5 mL Empty Spin Columns, including capped outer tubes, mini inner tubes, uhmw-pe frits, microfiltration membrane and fixing rings	1000 Pcs/PK
007600	15 mL Empty Spin Columns, including outer tubes, inner tubes, UHMW-PE frits and fixing rings	50 Pcs/PK
007500	50 mL Empty Spin Columns, including outer tubes, inner tubes, UHMW-PE frits and fixing rings	10 Pcs/PK
FC050-1	50 mL Empty Spin Columns, including capped outer tubes, inner tubes, microfiltration membrane, frits and fixing rings	20 Pcs/PK
FS001-1	SpinFlow® Lysis-Filtration Columns, 1.5 mL	100 Sets/PK
FS002-1	SpinFlow® Lysis-Filtration Columns, 2.0 mL	100 Sets/PK
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 Pcs/PK

Embed™ 96 Well Peptide Desalting Plate



biocomma® peptide desalting plate is based on EmbedTM technology. The C18 hydrophobic resin is filled in DVfree 96 filter plate to achieve efficient desalting of peptide samples after enzymatic digestion. The unique EmbedTM technology still possess high binding capacity and recovery rate for small volume samples, which is an effective tool for sample preparation for peptide mass spectrometry analysis.

Features

- **High Throughput:**Process 96 samples one time and suitable for automated pre-processing workstations.
- **High Sensitivity:** Significantly reduces signal suppression and increases mass spectrometry sensitivity.
- **High Reproducibility:**Unique EmbedTM technology, stable performance, good repeatability.
- **No dead Volume:**DVfree structure design, without dead volume
- **High Binding Capacity:**Special hydrophobic C18 resin enables high recovery rate.

Applications

- Purification of peptides after protease cleavage.
- Peptide sample concentration and desalting.
- Sample preparation for MALDI peptide analysis.
- Sample processing in proteomics workflows.

Cat. #	Description	Qty.
C18096-600	96 well C18 desalting plate, 600 µL, 2 mg/well	1 pc/box
C18096-400	96 well C18 desalting plate, 400 µL, 2 mg/well	1 pc/box

Peptide Desalting Spin Column

biocomma® peptide desalting spin column is a ready-to-use spin column, whichefficiently desalt the peptide sample after proteolysis. C18 hydrophobic resin in each spin column provides high binding force and high recovery rate for peptide sample. The column is suitable for mass spectrometry and peptide sample preparation by other methods.

Features

- **High Sensitivity:** Remove various contaminants. Significantly reduce signal suppression and improve mass spectrometry sensitivity
- **Easy To Use:** Spin column format, fits many common 2 mL columns.
- **Convenience:** Widely applied to different sample volume and concentrations
- **Efficiency:** Fast desalination with centrifuge
- **High Binding Capacity:** Special hydrophobic C18 resin enables high recovery.

Applications

- Purification of peptides after protease cleavage.
- Peptide sample concentration and desalting.
- Sample preparation for MALDI peptide analysis.
- Sample processing in proteomics workflows.

Cat. #	Description	Qty.
004401	Centrifugal C18 Desalting Column, 800 µL, 10 mg	25 pcs/box

Protein Separation and Purification Series

Ion Exchange Chromatography

- **SP Copure FF Prepacked Columns**

SP Copure FF Prepacked Columns are prepacked with SP Copure FF media. A strong cation exchanger is suitable for protein purification, screening and elution.

Cat. #	Description	Max. Flow Rate (ml/min)	Partical Diameter (μm)	Loading Value	Max. Operating Pressure (Mpa)	pH Range
P-IX0102-11	SP Copure FF Prepacked Columns 1×1mL	4	75	>120mg lysozyme	0.5	4-13
P-IX0102-51	SP Copure FF Prepacked Columns 5×1mL					3-14
P-IX0102-15	SP Copure FF Prepacked Columns 1×5mL	20				
P-IX0102-55	SP Copure FF Prepacked Columns 5×5mL					

- **SP Copure HP Prepacked Columns**

Strong cation exchange chromatography columns are prepacked with SP Copure HP media. Relatively smaller particle size provides more efficient and high-resolution purification.

Cat. #	Description	Max. Flow Rate (ml/min)	Partical Diameter (μm)	Loading Value	Max. Operating Pressure (Mpa)	pH Range
P-IX0101-11	SP Copure HP Prepacked Columns 1×1mL	4	40	55mg ribonuclease	0.35	4-13
P-IX0101-51	SP Copure HP Prepacked Columns 5×1mL					3-14
P-IX0101-15	SP Copure HP Prepacked Columns 1×5mL	20				
P-IX0101-55	SP Copure HP Prepacked Columns 5×5mL					

- **NI Copure FF Prepacked Columns**

The ready-to-use columns could be used for preparative purification of histidine-tagged recombinant proteins by chelate and metalion affinity chromatography.

Cat. #	Description	Max. Flow Rate (ml/min)	Partical Diameter (μm)	Loading Value	Max. Operating Pressure (Mpa)	pH Range
P-AC0101-11	NI Copure FF Prepacked Columns 1×1mL	4	90	＞40mg	0.35	3-12
P-AC0101-51	NI Copure FF Prepacked Columns 5×1mL					2-14
P-AC0101-15	NI Copure FF Prepacked Columns 1×5mL	20				
P-AC0101-55	NI Copure FF Prepacked Columns 5×5mL					

- **Mab Copure SE Prepacked Columns**

Mab Copure SE is a kind of medium to capture monoclonal antibodies from samples, which are highly recommended for Mab purification from high-level expression feedstocks in increased media loading value.

Cat. #	Description	Max. Flow Rate (ml/min)	Partical Diameter (μm)	Loading Value	Max. Operating Pressure (Mpa)	pH Range
P-AC0301-11	Mab Copure SE Prepacked Columns 1×1mL	4	75	Dynamic 30mg IgG/ mL	0.35	3-12
P-AC0301-51	Mab Copure SE Prepacked Columns 5×1mL					3-12
P-AC0301-15	Mab Copure SE Prepacked Columns 1×5mL	20				
P-AC0301-55	Mab Copure SE Prepacked Columns 5×5mL					

Cat. #	Description	Max. Flow Rate (ml/min)	Partical Diameter (μm)	Loading Value	Max. Operating Pressure (Mpa)	pH Range
P-AC0201-11	GST Copure FF Prepacked Columns 1×1mL	4	90	＞12mg	0.5	3-12
P-AC0201-51	GST Copure FF Prepacked Columns 5×1mL					3-12
P-AC0201-15	GST Copure FF Prepacked Columns 1×5mL	20				
P-AC0201-55	GST Copure FF Prepacked Columns 5×5mL					

Prestained Protein Ladder

Biocomma® Prestained Protein Ladder is available in various colors of purple, yellow, red, orange, green and blue. The protein ladder can be transported at room temperature, and store up to 2 years at -20℃ .

Features

- Broad range
- Precise indication
- Clear band trace
- Colorful prestained colors
- Customization
- Ready to use

Ordering Information

Without His-tag Ladder

Cat. #	Description	Qty.
PMK01-01	Prestained Protein Ladder: 8 (Green), 17, 25, 33, 43, 55, 72(Orange), 100, 130, 180 KDa	250 μL
PMK01-05		5×250 μL
PMK02-01	Prestained Protein Ladder: 2.6, 4.2, 7, 10 (Green), 15, 20, 25, 30, 40 (Orange) KDa	250 μL
PMK02-05		5×250 μL
PMK03-01	Prestained Protein Ladder: 10, 15, 20, 25 (Green), 30, 40, 50, 72 (Orange), 100, 130, 250 KDa	250 μL
PMK03-05		5×250 μL

His-tagged Standard Ladder

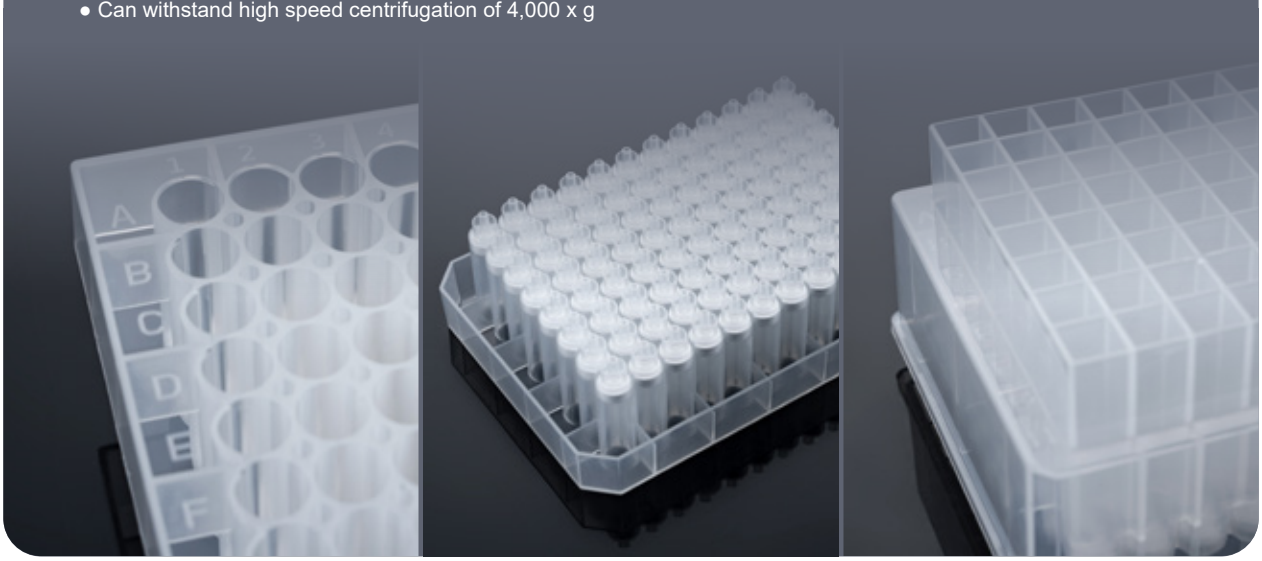
Cat. #	Description	Qty.
PMK04-01	Prestained Protein Ladder: 10 (Green), 17, 25, 33, 43, 55, 70 (Orange), 95, 130, 180 KDa	250 μL
PMK04-05		5×250 μL
PMK05-01	Prestained Protein Ladder: 10, 17, 25 (Green), 34, 43, 55, 75 (Orange), 95, 130, 180 KDa	250 μL
PMK05-05		5×250 μL
PMK06-01	Prestained Protein Ladder: 15, 20, 25, 35, 50, 70 (Orange), 100, 130 KDa	250 μL
PMK06-05		5×250 μL

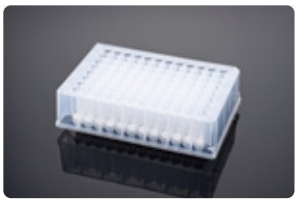
96-Well Filtration Plates

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





Cat. #	Description	Qty.
004901-5	96-Well Filtration Plates, 1.0 mL/well, 5 µm frit/well	4 Pcs/PK
004901-20	96-Well Filtration Plates, 1.0 mL well, 20 µm frit/well	4 Pcs/PK
004901-50	96-Well Filtration Plates, 1.0 mL/well, 50 µm frit/well	4 Pcs/PK
004902-5	96-Well Filtration Plates, 1.5 mL/well, 5 µm frit/well	4 Pcs/PK
004902-20	96-Well Filtration Plates, 1.5 mL/well, 20 µm frit/well	4 Pcs/PK
004902-50	96-Well Filtration Plates, 1.5 mL/well, 50 µm frit/well	4 Pcs/PK
004903-5	96-Well Filtration Plates, 2.0 mL/well, 5 µm frit/well	2 Pcs/PK
004903-20	96-Well Filtration Plates, 2.0 mL/well, 20 µm frit/well	2 Pcs/PK
004903-50	96-Well Filtration Plates, 2.0 mL/well, 50 µm frit/well	2 Pcs/PK
004905-1	96-Well Plasmid Filtration Plates, 1.0 mL/well	30 Pcs/PK
0041905-4	96-Well Plasmid Filtration Plates, 1.5 mL/well	30 Pcs/PK

Spinflow® Micro-Filtration Columns & Plates

Spinflow® Micro-Filtration Columns & Plates packed with many different types and materials of microfiltration membranes, such as polyvinylidene fluoride (PVDF), mixed cellulose (MCE), polytetrafluoroethylene (PTFE) and other microporous filter membranes. The product also can 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.

Features

- Filter particles smaller than 1 micron
- The columns particularly designed for standard benchtop micro centrifuges
- The size complies with the ANSI/SBS standards, which is convenient for automation
- No dead volume, high recovery
- Filter bacteria, particles and cells to prepare HPLC samples, and remove DNA from agarose or acrylamide gels

Cat. #	Description	Qty.
FC0015-CA-22	2.0 mL Centrifugal Filters, hydrophilic CA, 0.22 µm	50 Sets/PK
FC0015-PVDF-22	2.0 mL Centrifugal Filters, organic PVDF, 0.22 µm	50 Sets/PK
FC015-CA-22	15 mL Centrifugal Filters, hydrophilic CA, 0.22 µm	50 Sets/PK
FC015-PVDF-22	15 mL Centrifugal Filters, organic PVDF, 0.22 µm	50 Sets/PK
FC050-CA-22	50 mL Centrifugal Filters, hydrophilic CA, 0.22 µm	50 Sets/PK
FC050-PVDF-22	50 mL Centrifugal Filters, organic PVDF, 0.22 µm	50 Sets/PK
FC0015-CA-45	2.0 mL Centrifugal Filters, hydrophilic CA, 0.45 µm	50 Sets/PK
FC0015-PVDF-45	2.0 mL Centrifugal Filters, organic PVDF, 0.45 µm	50 Sets/PK
FC015-CA-45	15 mL Centrifugal Filters, hydrophilic CA, 0.45 µm	50 Sets/PK
FC015-PVDF-45	15 mL Centrifugal Filters, organic PVDF, 0.45 µm	50 Sets/PK
FC050-CA-45	50 mL Centrifugal Filters, hydrophilic CA, 0.45 µm	50 Sets/PK
FC050-PVDF-45	50 mL Centrifugal Filters, organic PVDF, 0.45 µm	50 Sets/PK

Cat. #	Description	Qty.
M0024-PES-H-22	24-Well Micro-Filter Plate, 7ml, PES, 0.22 µm, and a collection plate	2 Sets/PK
M0024-PES-45	24-Well Micro-Filter Plate, 7ml, PES, 0.45 µm,and a collection plate	2 Sets/PK
M0024-CA-22	24-Well Micro-Filter Plate, 7ml, CA, 0.22 µm,and a collection plate	2 Sets/PK
M0024-CA-45	24-Well Micro-Filter Plate, 7ml, CA, 0.45 µm,and a collection plate	2 Sets/PK
M0024-PVDF-22	24-Well Micro-Filter Plate, 7ml, PVDF, 0.22 µm,and a collection plate	2 Sets/PK
M0024-PVDF-45	24-Well Micro-Filter Plate, 7ml, PVDF, 0.45 µm,and a collection plate	2 Sets/PK
M0024-MCE-22	24-Well Micro-Filter Plate, 7ml, MCE, 0.22 µm,and a collection plate	2 Sets/PK
M0024-MCE-45	24-Well Micro-Filter Plate, 7ml, MCE, 0.45 µm,and a collection plate	2 Sets/PK

Cat. #	Description	Qty.
M0096-MCE-45	96-Well Micro-Filter Plates 50-250 µL, hydrophilic MCE, 0.45 µm	10 Pcs/PK
M0096-MCE-22	96-Well Micro-Filter Plates 50-250 µL, hydrophilic MCE, 0.22 µm	10 Pcs/PK
M0096-PVDF-45	96-Well Micro-Filter Plates 50-250 µL, hydrophobic PVDF, 0.45 µm	10 Pcs/PK
M0096-PVDF-22	96-Well Micro-Filter Plates 50-250 µL, hydrophobic PVDF, 0.22 µm	10 Pcs/PK
M0096-PVDF-H-45	96-Well Micro-Filter Plates 50-250 µL, hydrophilic PVDF, 0.45 µm	10 Pcs/PK
M0096-PVDF-H-22	96-Well Micro-Filter Plates 50-250 µL, hydrophilic PVDF, 0.22 µm	10 Pcs/PK
M0096-PTFE-45	96-Well Micro-Filter Plates 50-250 µL, hydrophobic PTFE, 0.45 µm	10 Pcs/PK
M0096-PTFE-22	96-Well Micro-Filter Plates 50-250 µL, hydrophobic PTFE, 0.22 µm	10 Pcs/PK
M0096-PTFE-H-45	96-Well Micro-Filter Plates 50-250 µL, hydrophilic PTFE, 0.45 µm	10 Pcs/PK
M0096-PTFE-H-22	96-Well Micro-Filter Plates 50-250 µL, hydrophilic PTFE, 0.22 µm	10 Pcs/PK

Sterile Syringe Filters

biocomma® Sterile Syringe Filters remove bacteria fast and reduce the impact on active ingredients in liquid during sterilization process. Generally, 0.1 μm syringe filter filters mycoplasma, 0.22 μm filters bacteria, and 0.45um filters solid particles. Sterile syringe filters are widely applied to various fields of life science to sterilize small-volume biological liquids, such as proteins, culture media, additives, buffers, reagents, pharmaceuticals and etc.

Features

- The easy tear packaging is made of medical polypropylene to ensure good sealing
- Sterilized by gamma radiation
- DNase and RNase free, pyrogen free and No Endotoxin
- Low protein adsorption rate

Ordering Information

Sterile Mixed Cellulose Ester (MCE) Syringe Filters

Cat. #	Description	Qty.
SSF130-22-MCE	MCE / Φ13 mm / 0.22 μm / Hydrophilic	100 Pcs/PK
SSF130-45-MCE	MCE / Φ13 mm / 0.45 μm / Hydrophilic	100 Pcs/PK
SSF250-22-MCE	MCE / Φ25 mm / 0.22 μm / Hydrophilic	100 Pcs/PK
SSF250-45-MCE	MCE / Φ25 mm / 0.45 μm / Hydrophilic	100 Pcs/PK

Sterile Polyvinylidene Fluoride (PVDF) Syringe Filters

Cat. #	Description	Qty.
SSF130-22-PVDF	PVDF / Φ13 mm / 0.22 μm / Hydrophobic	100 Pcs/PK
SSF130-45-PVDF	PVDF / Φ13 mm / 0.45 μm / Hydrophobic	100 Pcs/PK
SSF250-22-PVDF	PVDF / Φ25 mm / 0.22 μm / Hydrophobic	100 Pcs/PK
SSF250-45-PVDF	PVDF / Φ25 mm / 0.45 μm / Hydrophobic	100 Pcs/PK

Sterile Cellulose Acetate (CA) Syringe Filters

Cat. #	Description	Qty.
SSF130-22-CA	CA / Φ13 mm / 0.22 μm / Hydrophilic	100 Pcs/PK
SSF130-45-CA	CA / Φ13 mm / 0.45 μm / Hydrophilic	100 Pcs/PK
SSF250-22-CA	CA / Φ25 mm / 0.22 μm / Hydrophilic	100 Pcs/PK
SSF250-45-CA	CA / Φ25 mm / 0.45 μm / Hydrophilic	100 Pcs/PK

Sterile Polytetrafluoroethylene (PTFE) Syringe Filters

Cat. #	Description	Qty.
SSF130-22-PTFE	PTFE / Φ13 mm / 0.22 μm / Hydrophobic	100 Pcs/PK
SSF130-45-PTFE	PTFE / Φ13 mm / 0.45 μm / Hydrophobic	100 Pcs/PK
SSF250-22-PTFE	PTFE / Φ25 mm / 0.22 μm / Hydrophobic	100 Pcs/PK
SSF250-45-PTFE	PTFE / Φ25 mm / 0.45 μm / Hydrophobic	100 Pcs/PK

Sterile Polyethersulfone (PES) Syringe Filters

Cat. #	Description	Qty.
SSF130-22-PES	PES / Φ13 mm / 0.22 μm / Hydrophilic	100 Pcs/PK
SSF130-45-PES	PES / Φ13 mm / 0.45 μm / Hydrophilic	100 Pcs/PK
SSF250-22-PES	PES / Φ25 mm / 0.22 μm / Hydrophilic	100 Pcs/PK
SSF250-45-PES	PES / Φ25 mm / 0.45 μm / Hydrophilic	100 Pcs/PK

Sterile Nylon Syringe Filter

Cat. #	Description	Qty.
SSF130-22-NL	Nylon / Φ13 mm / 0.22 μm / Hydrophilic	100 Pcs/PK
SSF130-45-NL	Nylon / Φ13 mm / 0.45 μm / Hydrophilic	100 Pcs/PK
SSF250-22-NL	Nylon / Φ25 mm / 0.22 μm / Hydrophilic	100 Pcs/PK
SSF250-45-NL	Nylon / Φ25 mm / 0.45 μm / Hydrophilic	100 Pcs/PK

Sterile Filter Device

biocomma® Disposable Vacuum Filtration units are a standalone filtration unit that combines a graduated funnel-top, filter assembly and graduated reservoir. They are ideal for when a self-contained, pre-sterilized, disposable filtration unit is required. Can be used for the sterile filtration of biological and aqueous fluids, tissue culture media and buffers. Available with PES, cellulose acetate and PVDF membranes in various pore sizes, comes in two funnel sizes (250 and 500 ml) and three receiver flask (250, 500 and 1000 mL).

Features

- Disposable and pre-sterilized by gamma irradiation for rapid and convenient use.
- Non-pyrogenic, low extractables and surfactant-free ensures purity of filtrate.
- Reservoir has textured areas for improved grip when handling and opening and sealing the bottle.
- Glass fiber pre-filter is available.

Material	Features	Application
PES Vacuum Filtration Units	PES asymmetrical membrane, hydrophilic membrane, high porosity, fast flow rate, low fouling, and low protein adsorption	Suitable for filtering biological fluids such as serum, cell culture media, buffers, protein solutions, and for use in culturing
MCE Vacuum Filtration Units	MCE has limited chemical compatibility, low protein adsorption	Suitable for filtering biological fluids and buffer solutions.
PVDF Vacuum Filtration Units	PVDF has strong chemical compatibility, low protein adsorption, and high mechanical strength	Suitable for filtering certain organic solvents and biological fluids.
PTFE Vacuum Filtration Units	PTFE has strong chemical compatibility	Suitable for filtering strong acid and strong base, low extractable level
Nylon Vacuum Filtration Units	Nylon is hydrophilic, has high mechanical strength, is resistant to alkali but not acid, and has strong protein binding	Suitable for filtering buffer solutions and chemical reagents, but not for critical protein solution filtration
CA Vacuum Filtration Units	CA has limited chemical compatibility, low protein adsorption	Suitable for buffer solutions and protein recovery experiments
GF Vacuum Filtration Units	GF has strong chemical compatibility, high dirt holding capacity, and strong acid and alkali resistance	Suitable for pre-filtration, for solution filtration that is difficult to filter and has a lot of impurities

0.1 μm vacuum filtration units for the removal of mycoplasma
0.2 μm vacuum filtration units for liquid sterile filtration
0.45 μm vacuum filtration units for liquid clarification and filtration

Ordering Information

Cat. #	Description	Qty.
VFP050-010-PES-250	PES, Φ50 mm, 0.1 µm, 250 ml Funnel, 250 ml Receiver Flask, Sterile	12 Sets/Box
VFP050-022-PES-250	PES, Φ50 mm, 0.22 µm, 250 ml Funnel, 250 ml Receiver Flask, Sterile	12 Sets/Box
VFP050-045-PES-250	PES, Φ50 mm, 0.45 µm, 250 ml Funnel, 250 ml Receiver Flask, Sterile	12 Sets/Box
VFP050-022-CA-250	CA, Φ50 mm, 0.22 µm, 250 ml Funnel, 250 ml Receiver Flask, Sterile	12 Sets/Box
VFP050-045-CA-250	CA, Φ50 mm, 0.45 µm, 250 ml Funnel, 250 ml Receiver Flask, Sterile	12 Sets/Box
VFP050-022-PVDF-250	Hydrophilic PVDF, Φ50 mm, 0.22 µm, 250 ml Funnel, 250 ml Receiver Flask, Sterile	12 Sets/Box
VFP050-045-PVDF-250	Hydrophilic PVDF, Φ50 mm, 0.45 µm, 250 ml Funnel, 250 ml Receiver Flask, Sterile	12 Sets/Box
VFP090-010-PES-500	PES, Φ90 mm, 0.1 µm, 500 ml Funnel, 500 ml Receiver Flask, Sterile	12 Sets/Box
VFP090-022-PES-500	PES, Φ90 mm, 0.22 µm, 500 ml Funnel, 500 ml Receiver Flask, Sterile	12 Sets/Box
VFP090-045-PES-500	PES, Φ90 mm, 0.45 µm, 500 ml Funnel, 500 ml Receiver Flask, Sterile	12 Sets/Box
VFP090-022-CA-500	CA, Φ90 mm, 0.22 µm, 500ml Funnel, 500 ml Receiver Flask, Sterile	12 Sets/Box
VFP090-045-CA-500	CA, Φ90 mm, 0.45 µm, 500 ml Funnel, 500 ml Receiver Flask, Sterile	12 Sets/Box
VFP090-022-PVDF-500	Hydrophilic PVDF, Φ90 mm, 0.22 µm, 500 ml Funnel, 500 ml Receiver Flask, Sterile	12 Sets/Box
VFP090-045-PVDF-500	Hydrophilic PVDF, Φ90 mm, 0.45 µm, 500 ml Funnel, 500 ml Receiver Flask, Sterile	12 Sets/Box
VFP090-010-PES-1000	PES, Φ90 mm, 0.1 µm, 1000 ml Funnel, 1000 ml Receiver Flask, Sterile	12 Sets/Box
VFP090-022-PES-1000	PES, Φ90 mm, 0.22 µm, 1000 ml Funnel, 1000 ml Receiver Flask, Sterile	12 Sets/Box
VFP090-045-PES-1000	PES, Φ90 mm, 0.45 µm, 1000 ml Funnel, 1000 ml Receiver Flask, Sterile	12 Sets/Box
VFP090-022-CA-1000	CA, Φ90 mm, 0.22 µm, 1000 ml Funnel, 1000 ml Receiver Flask, Sterile	12 Sets/Box
VFP090-045-CA-1000	CA, Φ90 mm, 0.45 µm,1000 ml Funnel, 1000 ml Receiver Flask, Sterile	12 Sets/Box
VFP090-022-PVDF-1000	Hydrophilic PVDF, Φ90 mm, 0.22 µm, 1000 ml Funnel, 1000 ml Receiver Flask, Sterile	12 Sets/Box
VFP090-045-PVDF-1000	Hydrophilic PVDF, Φ90 mm, 0.45 µm, 1000 ml Funnel, 1000 ml Receiver Flask, Sterile	12 Sets/Box

Vacuum Manifolds

The Vacuum Manifolds are specially designed for high-throughput nucleic acid purification, solid phase extraction, protein precipitation, Oligo synthesis and other applications. The manifolds are adapted to 48/96/384 well plates and Luer-inlet columns to eliminate repetition of pipetting and centrifugation in traditional nucleic acid extraction methods.

Features

- **Reliability:** made of anti-corrosion and durable material
- **Uniformity:** the compact design ensures uniform flow rate during extraction at negative pressure
- **Convenience:** eliminate repeated operations of centrifugation and pipetting in traditional methods to improve efficiency

Applications

Universal Vacuum Manifolds	Nucleic acid extraction, solid phase extraction, protein precipitation, QuEChERS, phospholipids removal, Oligo synthesis of deprotection, ammonolysis and other processes etc.
Double-Layer Vacuum Manifolds	Enable filtration and extraction at same time for nucleic acid extraction, solid phase extraction, protein precipitation, phospholipids removal, etc.
Micro-Filter Plate Vacuum Manifolds	Protein kinase and phosphatase assays, protein purification, receptor interaction assays, protein binding assays, ELISPOT assays, mass spectrometry, fluorescent dye removal

	Cat. #	Description	Qty.
	009803-R-E	Universal Vacuum Manifolds (rose red)	1 Set/Carton
	009803-B-E	Universal Vacuum Manifolds (sapphire blue)	1 Set/Carton
	009804-R-E	Double-Layer Vacuum Manifolds (rose red)	1 Set/Carton
	009804-B-E	Double-Layer Vacuum Manifolds (sapphire blue)	1 Set/Carton
	009807-R-E	Micro-Filter Plate Vacuum Manifolds (rose red)	1 Set/Carton
	009807-B-E	Micro-Filter Plate Vacuum Manifolds (sapphire blue)	1 Set/Carton

Vacuum Pump

biocomma® Vacuum Pumps are designed to work with vacuum manifolds. Utilizing diaphragm vacuum technology without oil to eliminate contamination of media that occurs in rotary vane pumps.

Parameters

Oil-Free Vacuum Pump	Portable	Adjustable
Model	SPEMFP01-E	SPEMFP02-E
Ultimate Pressure	0.08 MPa	0.02~0.08
Max. Flow	10 L/min	5~30 L/min
Power	55 W	90 W
Power Supply	A.C. 220 V, 50/60 Hz	A.C. 220 V, 50/60 Hz
Weight	3 Kg	3.8 Kg

Ordering Information

Cat. #	Description	Qty.
SPEMFP01-E	Portable Oil-Free Vacuum Pump, ultimate pressure 0.08 MPa	1 Set/Carton
SPEMFP02-E	Adjustable Oil-Free Vacuum Pump, adjustable pressure: 0.02~0.08, waste collection bottle included	1 Set/Carton

Better Filter & Better Sample Prep & Better Bioprocess

Biocomma Limited

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