



biocomma

SPE
2017

Solid Phase Extraction

SPE Innovation Expert

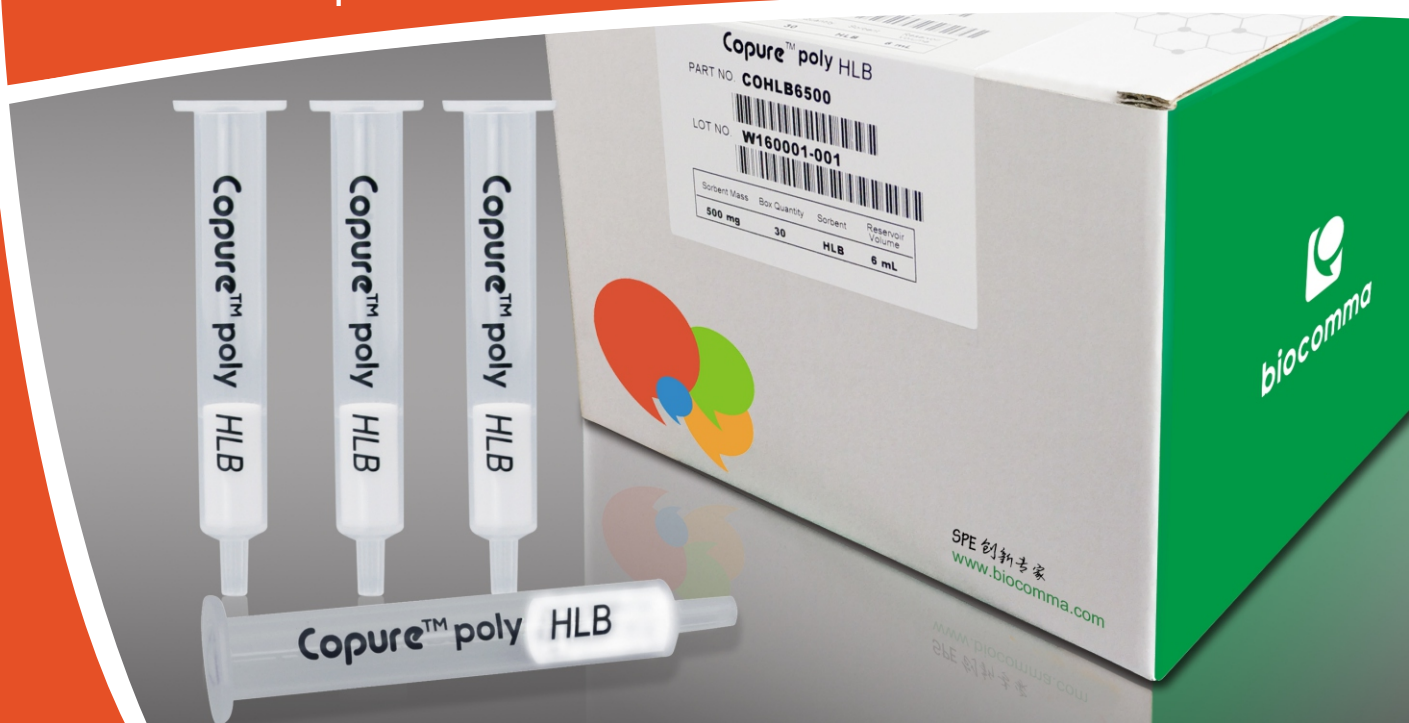
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2017 60p

(added 2023-6)

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About Biocomma

Biocomma Limited, founded in 2006, is a leading manufacturer of filtration, sample preparation and life science products. Biocomma products are widely used in many areas such as gene detection, new drug discovery, clinical diagnosis, food safety, environmental protection, industrial material detection and life science. In the past ten years, we have served over 4,000 customers and provided OEM and custom services for dozens of well-known brands around the world.

The Analysis Business Unit of Biocomma specializes in chromatographic consumables to provide chromatographic consumables accessories, solutions and OEM services for food safety, clinical diagnostics, fabric inspection and environmental monitoring.

The Analysis Business Unit has a team of over 10 researchers, led by a top American chromatography scientist. The R&D center, equipped with advanced analytical instruments, is responsible for new product development and continuous application testing, to provide customers with integrated solutions. The production center is powered with automated assembly lines of SPE cartridge and QuEChERS kits, capable of quick large order delivery for customers.



Products supplied by our business unit include:

1. Copure® SPE Cartridges, including Copure® polymeric SPE cartridges, Copure® silica SPE cartridges and Copure® SLE cartridges.
2. Copure® QuEChERS, including Copure® QuEChERS EN kits, Copure® QuEChERS AOAC kits, Copure® QuEChERS China kits.
3. Copure® Immunoaffinity Columns for analyzing mycotoxins such as aflatoxins, T2 toxin, ochratoxin and deoxynivalenol.
4. OEM and customization services for SPE and QuEChERS products.
5. SPE parts and chromatography consumables, including empty SPE cartridges, frits for SPE/Flash cartridges, autosampler vials and syringe filters

Copure®

Sample Preparation Solutions

SPE, SLE and QuEChERS



**Copure®
Brand**

Copure® products focus on sample preparation of complicated matrix, aiming to deliver the following values for our customers:

consistent—Achieving satisfactory recovery and repeatability for each analyte.

pure—Eliminating matrix interference to obtain clean chromatogram for the sample.

Features of Copure® products:



Verified Performance--Each batch of SPE cartridges are verified to meet performance specifications and results are accessible from Biocomma.



Application Notes--Applications notes are provided for free and continuously updated by Biocomma.



Custom Services--By scanning the QR code in the packaging, customers can get technical support via mobile app WeChat.

Copure® product line includes: Polymeric SPE, Silica-based SPE, Supported Liquid Extraction (SLE), Dispersive SPE (QuEChERS) and Specialty SPE.

Ordering Guidelines

- * Copure® products are sold in box.

We accept orders by email (spe@biocomma.com),
by phone (+86 755-25498787) and
by fax (+86 755-25498726).

- * Information about Copure® products and related products
is available on www.biocomma.com.

- * This brochure lists only basic information. For complete
product list and specifications, please contact Biocomma.

- * Biocomma provides generic brand and custom SPE products
as well.

Copure[®] SLE Cartridges

A brand-new methodology for clinic diagnosis

Effective extraction of hormones, antidepressants, anticoagulants and vitamins.



Specialty Cartridges

For air monitoring

- DNPH Air Sampling Sorbent Tubes



For texture and leather inspection

- SLE Cartridges for Azo Dye Testing
- Destaining Cartridges for Chrome (VI) Testing



For food safety

- Cartridges for Honey Analysis
- Cartridges for Plasticizer Testing
- Cartridges for Benzo(a)pyrene Testing
- Immunoaffinity Cartridges for Mycotoxin Testing



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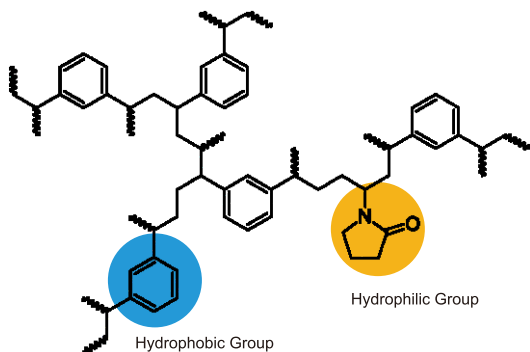
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HLB Hydrophilic-Lipophilic Balanced SPE

Extracting non-polar to moderately polar acidic, neutral and basic compounds



HLB sorbent is composed of monodisperse N-vinylpyrrolidone-divinylbenzene copolymer resin particles, with specific mixture of hydrophilic hydrophobic groups, allowing for retention for a wide range of compounds with very high capacities.

HLB can be used as a general-purpose sorbent, especially for extracting analytes from complicated samples such as blood and urine.

- General sorbent, suitable for wide application areas
- Highly wettable, no worry of bed dryness, rare breakthrough
- High recoveries, excellent reproducibilities
- 3 to 10 times higher adsorption capacities and loadabilities than C18-bounded silica gel
- Stable from pH 1 to 14, compatible with most common solvents

Specifications:

Surface area: 600 m²/g

Particle size: 40 µm

Pore size: 300 Å

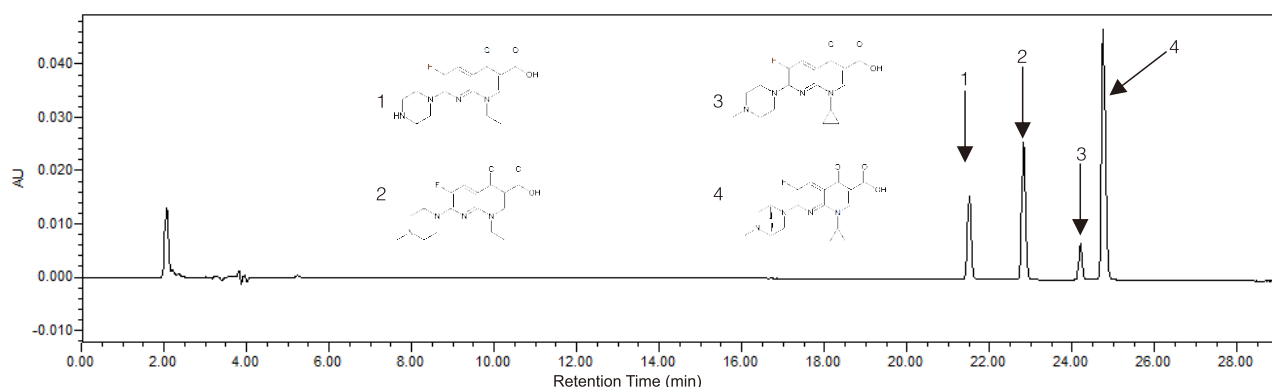
Applications:

- Determination of drugs, illicit drugs and their metabolites in blood, such as sertraline ibuprofen and heroin
- Determination of residual antibiotics, catecholamines, and microcystins in foodstuff
- Determination of veterinary drugs, pesticides and mycotoxin in milk products

Related methods:

- GB/T 21315-2007 Determination of penicillins residues in foodstuffs of animal origin LC-MS/MS method
- GB/T 21313-2007 Analysis of β-agonists in foods of animal origin by high performance liquid chromatography tandem mass spectrometry
- GB 29685-2013 Determination of Lincomycin, Clindamycin and Spectinomycin residues in animal derived food by Gas Chromatography Mass Spectrometric method
- GB 29682-2013 National Food Safety Standard Determination of Penicillins residues in aquatic products by High Performance Liquid Chromatographic method
- NY/T 2067-2011 Determination of 13 sulfonylurea herbicides residues in soil by LC/MS/MS
- SN/T 2050-2008 Determination of 14 beta-lactam antibiotic residues in foodstuffs of animal origin for export and import - LC-MS/MS method
- SN/T 2654-2010 Determination of moroxydine residues in foodstuffs of animal origin for export and import - LC-MS/MS method
- SN/T 2222-2008 Determination of glucocorticosteroids residues in foodstuffs of animal origin for import and export - LC-MS/MS method

Application: Determination of Quinolones in foods



SPE Cartridge: Biocomma HLB, 200mg/3mL
 System: Waters alliance 2690
 Column: Welch Ultimate XB-C18 (4.6*250mm)
 Mobile phase A: acetonitrile
 Mobile phase B: water containing 0.1% formic acid
 Flowrate: 1 mL/min
 Column temperature: room temperature
 Injection volume: 20 µL
 Detector: UV at 220 nm

Gradient:

Step	Time(min)	A%	B%
1	0	9	91
2	11	9	91
3	20	29	71
4	25	37	63
5	26	100	0
6	30	100	0
7	21	9	91
8	36	9	91

Results:

Peak	Retention time (min)	Analyte	Recovery(%)
1	21.508	Enoxacin	92.8
2	22.820	Pefloxacin	82.4
3	24.201	Danofloxacin	93.8
4	24.754	Enrofloxacin	81.2

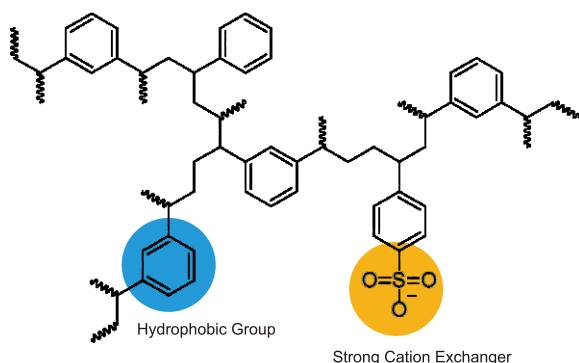
The results suggest that recoveries of > 80% are obtained by using Biocomma HLB cartridges to extract the four Quinolones in foods, meeting the criteria of China official method GB/T 21312-2007.

Order information:

Cat. #	Format	Qty.
COHLB130	30mg/1mL	100/Box
COHLB1100	100mg/1mL	100/Box
COHLB330	30mg/3mL	50/Box
COHLB360	60mg/3mL	50/Box
COHLB3200	200mg/3mL	50/Box
COHLB3500	500mg/3mL	50/Box
COHLB6150	150mg/6mL	30/Box
COHLB6200	200mg/6mL	30/Box
COHLB6500	500mg/6mL	30/Box
COHLB12500	500mg/12mL	20/Box

MCX Mixed-mode Cation Exchange SPE

Extracting basic compounds



Specifications:

Surface area: 600 m²/g

Particle size: 40 µm

Pore size: 300 Å

Applications:

- Determination of residual pesticides / veterinary drugs in foodstuff, such as clenbuterol
- Analysis of drugs and drug metabolites in biological matrices

Related methods:

- GB/T 22388-2008 Determination of melamine in raw milk and dairy products
- GB 29694-2013 National Food Safety Standard - Determination of Residual 13 Types of Sulfonamides in Animal Food - High Performance Liquid Chromatography
- GB/T 22286-2008 Determination of beta-Agonists residues in foodstuff of animal origin - Liquid chromatography with tandem-mass spectrometric method

MCX sorbent is composed of monodisperse polystyrene-divinylbenzene resin particles grafted with aromatic sulfonic acid groups. This polymeric mixed-mode sorbent features reversed-phase and strong cation exchange retention mechanisms, allowing for superb retention for basic compounds.

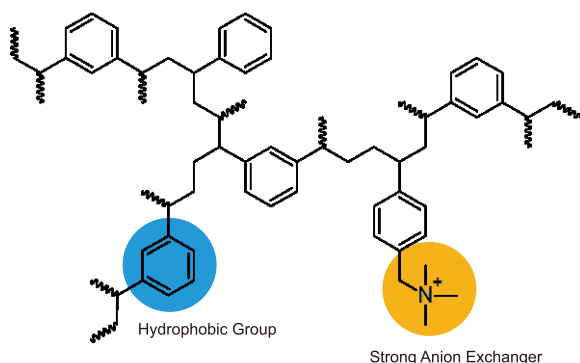
- Superb retention for basic compounds
- High surface area, high ion exchange capacities
- Stable from pH 1 to 14, compatible with most common solvents

Order information:

Cat. #	Format	Qty.
COMCX130	30mg/1mL	100/Box
COMCX1100	100mg/1mL	100/Box
COMCX330	30mg/3mL	50/Box
COMCX360	60mg/3mL	50/Box
COMCX3200	200mg/3mL	50/Box
COMCX3500	500mg/3mL	50/Box
COMCX6150	150mg/6mL	30/Box
COMCX6200	200mg/6mL	30/Box
COMCX6500	500mg/6mL	30/Box
COMCX12500	500mg/12mL	20/Box

MAX Mixed-mode Anion Exchange SPE

Extracting acidic compounds



MAX sorbent is composed of monodisperse polystyrene-divinylbenzene resin particles grafted with aromatic quaternary ammonium groups. This polymeric mixed-mode sorbent features reversed-phase and strong anion exchange retention mechanisms, allowing for superb retention for acidic compounds.

- Wettable, rare breakthrough
- Stable from pH 1 to 14, compatible with most common solvents
- General sorbents for acidic compounds

Specifications:

Surface area: 600 m²/g

Particle size: 40 µm

Pore size: 300 Å

Applications:

- Determination of residual pesticides / veterinary drugs in foodstuff
- Analysis of drugs and drug metabolites in biological matrices
- Analysis of active ingredients in cosmetics

Related methods:

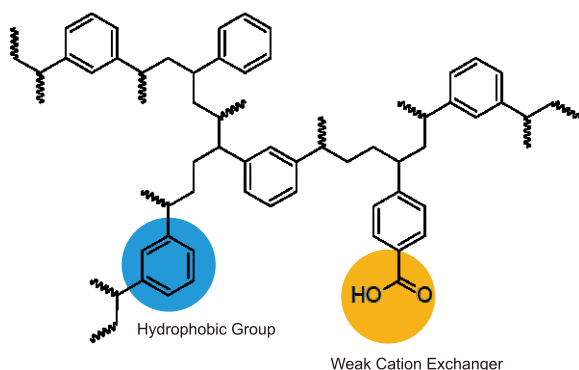
- GB/T 20746-2006 Method for the determination of the residues of carbadox olaquinox and related metabolites in bovine and porcine liver and muscle tissues - LC-MS-MS method
- GB/T 22992-2008 Determination of virginiamycin residue in bovine milk and milk powder - LC-MS-MS method

Order information

Cat. #	Format	Qty.
COMAX130	30mg/1mL	100/Box
COMAX1100	100mg/1mL	100/Box
COMAX330	30mg/3mL	50/Box
COMAX360	60mg/3mL	50/Box
COMAX3200	200mg/3mL	50/Box
COMAX3500	500mg/3mL	50/Box
COMAX6150	150mg/6mL	30/Box
COMAX6200	200mg/6mL	30/Box
COMAX6500	500mg/6mL	30/Box
COMAX12500	500mg/12mL	20/Box

WCX Weak Cation Exchange SPE

Extracting strong bases



- Superb retention for strong bases
- Predictable single retention mechanism
- Stable from pH 1 to 14, compatible with most common solvents

Specifications:

Surface area: 600 m²/g

Particle size: 40 µm

Pore size: 300 Å

Applications:

- Analysis of strong basic drugs in biological matrices
- New drug discovery

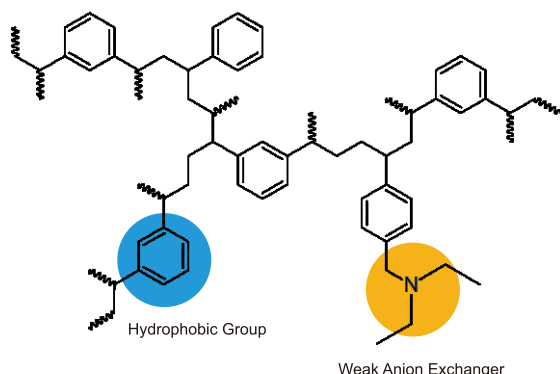
WCX sorbent is composed of monodisperse microporous polystyrene-divinylbenzene resin particles grafted with carboxyl groups. This polymeric mixed-mode sorbent features reversed-phase and weak cation exchange retention mechanisms, allowing for superb retention for strong bases such as quaternary ammonium cations.

Order information:

Cat. #	Format	Qty.
COWCX130	30mg/1mL	100/Box
COWCX1100	100mg/1mL	100/Box
COWCX330	30mg/3mL	50/Box
COWCX360	60mg/3mL	50/Box
COWCX3200	200mg/3mL	50/Box
COWCX3500	500mg/3mL	50/Box
COWCX6150	150mg/6mL	30/Box
COWCX6200	200mg/6mL	30/Box
COWCX6500	500mg/6mL	30/Box
COWCX12500	500mg/12mL	20/Box

WAX Weak Anion Exchange SPE

Extracting strong acids



- Superb retention for strong acids
- Predictable single retention mechanism
- Stable from pH 1 to 14, compatible with most common solvents

Specifications:

Surface area: 600 m²/g

Particle size: 40 µm

Pore size: 300 Å

Applications:

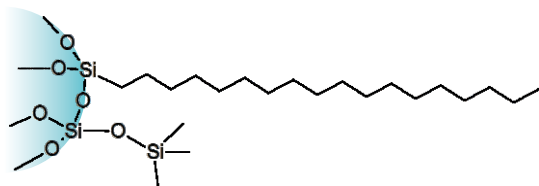
- Analysis of strong acids drugs in biological matrices
- Determination of strongly acidic pollutants such as perfluorinated carboxylic acids in environment and water
- New drug discovery

Order information:

Cat. #	Format	Qty.
COWAX130	30mg/1mL	100/Box
COWAX1100	100mg/1mL	100/Box
COWAX330	30mg/3mL	50/Box
COWAX360	60mg/3mL	50/Box
COWAX3200	200mg/3mL	50/Box
COWAX3500	500mg/3mL	50/Box
COWAX6150	150mg/6mL	30/Box
COWAX6200	200mg/6mL	30/Box
COWAX6500	500mg/6mL	30/Box
COWAX12500	500mg/12mL	20/Box

C18 Endcapped Octadecyl SPE

Extracting non-polar compounds



C18 sorbent is composed of endcapped octadecyl-bounded silica gel particles and retains non-polar compounds by hydrophobic interactions. It can retain most organic compounds and is widely used in areas such as environmental monitoring and food safety.

- High carbon content
- Fully endcapped surface coverage, reducing interference from basic and polar compounds
- Stable over a broader pH range

Specifications:

Carbon content: 17.6%
Surface area: 300 m²/g
Particle size: 40-60 µm
Pore size: 120 Å

Applications:

- Analysis of drugs, poisons, pollutants and their metabolites in biological matrices
- Separation of biomolecules such lipids, antibiotics, bile acids and saccharides
- Determination of mycotoxins such as fumonisins in foods
- Determination of preservatives in cosmetics and skin care products

Related methods:

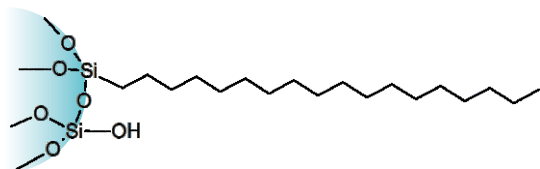
- GB/T 29598-2013 Limit and determination of triazines in fluorescent brighteners
- GB/T 21323-2007 Determination of aminoglycosides residues in animal tissues—HPLC-MS/MS method
- NY/T 1616-2008 Determination of 9 sulfonylurea herbicides residues in soils by LC-MS

Order information:

Cat. #	Format	Qty.
COC181100	100mg/1mL	100/Box
COC183200	200mg/3mL	50/Box
COC183500	500mg/3mL	50/Box
COC186500	500mg/6mL	30/Box
COC1861000	1000mg/6mL	30/Box
COC18121000	1000mg/12mL	20/Box
COC18122000	2000mg/12mL	20/Box

C18N Unendcapped Octadecyl SPE

Extracting polar and non-polar compounds



C18N sorbent is composed of octadecyl-bounded silica gel particles. In addition to strong retention for non-polar compounds by hydrophobic interactions, it provides retention for basic compounds due to residual silanols. C18N is a general-purpose sorbent capable of retaining both polar and non-polar compounds.

- High carbon content
- Abundant residual silanols
- General-purpose sorbent

Specifications:

Carbon content: 17%
Surface area: 300 m²/g
Particle size: 40-75 µm
Pore size: 100 Å

Applications:

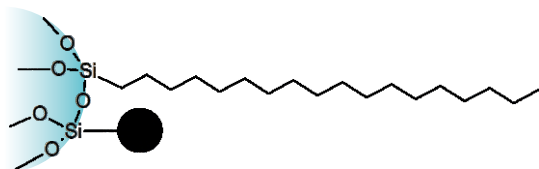
- Determination of organic pollutants such as polycyclic aromatic hydrocarbons (PAHs) in soils
- Determination of pesticides and veterinary drugs such as antibiotics in foods
- Analysis of pigments and saccharides in food
- Desalting of aqueous solutions before ion exchange

Order information:

Cat. #	Format	Qty.
COC18N1100	100mg/1mL	100/Box
COC18N3200	200mg/3mL	50/Box
COC18N3500	500mg/3mL	50/Box
COC18N6500	500mg/6mL	30/Box
COC18N61000	1000mg/6mL	30/Box
COC18N121000	1000mg/12mL	20/Box
COC18N122000	2000mg/12mL	20/Box

C18A Unendcapped Octadecyl SPE

Extracting non-polar compounds



C18A sorbent is composed of octadecyl-bounded silica gel particles and retains non-polar compounds by hydrophobic interactions.

Hydrophilic surface modification makes C18A wettable and prevents its carbon chains from collapsing in aqueous solutions. Due to its compatibility with aqueous mobile phases, even pure water can be used, and silica particles are more stable.

Specifications:

Carbon content: 12%
Surface area: 300 m²/g
Particle size: 40-75 µm
Pore size: 100 Å

Applications:

- Desalting of biological macromolecules such as nucleic acids, proteins and peptides.
- Determination of drugs, pesticides and organic pollutants in water, such as polycyclic aromatic hydrocarbons (PAHs)

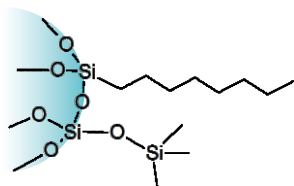
- Compatible with aqueous solutions
- Additional retention for polar compounds

Order information:

Cat. #	Format	Qty.
COC18A1100	100mg/1mL	100/Box
COC18A3200	200mg/3mL	50/Box
COC18A3500	500mg/3mL	50/Box
COC18A6500	500mg/6mL	30/Box
COC18A61000	1000mg/6mL	30/Box
COC18A121000	1000mg/12mL	20/Box
COC18A122000	2000mg/12mL	20/Box

C8 Octyl SPE

Extracting non-polar compounds



C8 sorbent is composed of octyl-bounded silica gel particles and retains non-polar compounds by hydrophobic interactions.

Compared with C18, C8 has shorter carbon chains and moderate hydrophobicity, thus makes an alternative for extracting compounds that are strongly retained by C18 sorbent.

- Moderate hydrophobicity
- Capable of extracting compounds strongly retained by C18

Specifications:

Carbon content: 9%
Surface area: 280 m²/g
Particle size: 40-75 µm
Pore size: 100 Å

Applications:

- Extraction of hydrophilic and lipophilic vitamins in plasma
- Determination of residual hormones in meat
- Determination of residual pesticides in waste
- Desalting of biological macromolecules

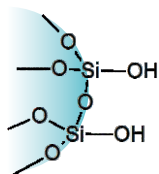
Order information:

Cat. #	Format	Qty.
COC81100	100mg/1mL	100/Box
COC83200	200mg/3mL	50/Box
COC83500	500mg/3mL	50/Box
COC86500	500mg/6mL	30/Box
COC861000	1000mg/6mL	30/Box
COC8121000	1000mg/12mL	20/Box
COC8122000	2000mg/12mL	20/Box



Silica Unbounded Silica Gel SPE

Extracting polar compounds



Silica is an unbounded silica gel sorbent. It has the strongest polarity among all normal phase sorbents, able to retain polar compounds in samples, particularly compounds with a similar structure.

- Very strong retention for polar compounds
- High sample loadabilities
- Capable of separating compounds with a similar structure

Specifications:

Surface area: 480 m²/g

Particle size: 40-75 µm

Pore size: 70 Å

Applications:

- Analysis of drugs, poisons, pollutants and their metabolites in biological matrices
- Separation of biomolecules such lipids, antibiotics, bile acids and saccharides
- Determination of mycotoxins such as fumonisins in foods
- Determination of preservatives in cosmetics and skin care products

Order information:

Cat.#	Format	Qty.
COSIL1100	100mg/1mL	100/Box
COSIL3200	200mg/3mL	50/Box
COSIL3500	500mg/3mL	50/Box
COSIL6500	500mg/6mL	30/Box
COSIL61000	1000mg/6mL	30/Box
COSIL121000	1000mg/12mL	20/Box
COSIL122000	2000mg/12mL	20/Box

Florisil Pesticide Grade Florisil SPE

Extracting multiresidual pesticides

Pesticide grade Florisil is a selective adsorbent comprised of synthetic magnesium-silica gel activated at 675 °C. It's strongly polar, extremely active, highly porous and able to retain low to moderately polar compounds such as chlorine-, nitrogen- and phosphorus-containing pesticides.

In analysis of multiresidual pesticides, Florisil has proven to be an effective, low-cost choice, and adopted in the U.S. EPA method 608 and China NY/T method 761.

- Good retention for most pesticides
- Suitable for viscous samples
- Economical

Related Methods:

- EPA 608 Organochlorine Pesticides and PCBs by GC/HSD
- NY/T 761 Pesticide multiresidue screen methods for determination of organophosphorus pesticides, organochlorine pesticides, pyrethroid pesticides and carbamate pesticides in vegetables and fruits
- NY/T 1720-2009 Determination of Seven Benzoylurea Pesticides Residues in Fruits and Vegetables by HPLC
- SN/T 0134-2010 Determination for pesticide residues of 12 kinds of carbamates including oxamyl in foods for import and export. LC-MS/MS method

Specifications:

Particle size: 150-250 µm

Applications:

- Determination of chlorine-, nitrogen- and phosphorus -containing pesticides in foods.
- Determination of mycotoxins in foods.

Order information:

Cat. #	Format	Qty.
COFL1100	100mg/1mL	100/Box
COFL3200	200mg/3mL	50/Box
COFL3500	500mg/3mL	50/Box
COFL6500	500mg/6mL	30/Box
COFL61000	1000mg/6mL	30/Box
COFL121000	1000mg/12mL	20/Box
COFL122000	2000mg/12mL	20/Box



ALA ALN ALB Alumina SPE

Extracting aromatic amines

Alumina is an extremely polar sorbent, like silica. Its abundance of surface electrons engenders $\pi - \pi$ interaction with aromatic rings, giving rise to strongly polar retention and Lewis acidity. Compared with un-bonded silica, alumina is more stable in high pH conditions and suitable for extracting aromatic amines.

Alumina is available in acidic (ALA), neutral (ALN) and basic (ALB) formulations from which you can choose an appropriate one according to your specific applications.

- Good retention for electron-rich compounds such as aromatic amines
- More stable than un-bonded silica in high pH conditions
- High capabilities

Specifications:

Surface area: >150 m²/g

pH: 4.0 for ALA, 7.0 for ALN, 9.5 for ALB

Applications:

- Analysis of amines, phenols and glycosides in biological matrices, such as pyrocatechol
- Determination of residual pesticides, veterinary drugs and pollutants in vegetables and fruits, such as Sudan dyes, malachite green and organophosphorus pesticides
- Determination of synthetic pigments in water
- Analysis of oil components

Related methods:

- GB/T 23816-2009 Method for determination of triazine herbicide residues in soybean
- GB/T 19681-2005 The method for the determination of Sudan dyes in foods-High performance liquid chromatography
- GB/T 20361-2006 Determination of malachite green and gentian violet residues in fishery products - High performance liquid chromatography with fluorescence detector
- NY/T 1756-2012 Determination of malachite green in feeds



Order information:

ALA – Acidic Alumina

Cat. #	Format	Qty.
COALA1100	100mg/1mL	100/Box
COALA3200	200mg/3mL	50/Box
COALA3500	500mg/3mL	50/Box
COALA6500	500mg/6mL	30/Box
COALA61000	1000mg/6mL	30/Box
COALA121000	1000mg/12mL	20/Box
COALA122000	2000mg/12mL	20/Box

ALN – Neutral Alumina

Cat. #	Format	Qty.
COALN1100	100mg/1mL	100/Box
COALN3200	200mg/3mL	50/Box
COALN3500	500mg/3mL	50/Box
COALN6500	500mg/6mL	30/Box
COALN61000	1000mg/6mL	30/Box
COALN121000	1000mg/12mL	20/Box
COALN122000	2000mg/12mL	20/Box

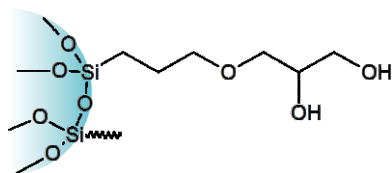
ALB – Basic Alumina

Cat. #	Format	Qty.
COALB1100	100mg/1mL	100/Box
COALB3200	200mg/3mL	50/Box
COALB3500	500mg/3mL	50/Box
COALB6500	500mg/6mL	30/Box
COALB61000	1000mg/6mL	30/Box
COALB121000	1000mg/12mL	20/Box
COALB122000	2000mg/12mL	20/Box



Diol Dihydroxy SPE

Used in normal or reversed phase, extracting polar compounds



Specifications:

Carbon content: 5.5%
Surface area: 290 m²/g
Particle size: 40 - 75 µm
Pore size: 100 Å

Diol is a dihydroxy bonded silica sorbent similar to unbounded silica sorbent in its capabilities. In addition to its normal retention resulting from strong hydrogen bonding with analytes, the hydrophobic spacers of its functional groups serve to reversed phase retention to a certain extent.

Diol is an alternative to un-bonded silica sorbent if the latter's strong acidity leads to retention of basic interferences.

Applications:

- Analysis of phenols, pigments and phospholipids in plant oils
- Determination of drugs and their metabolites in biological fluids such as urine
- Separation of glycan mixtures

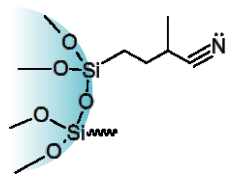
- Capable of polar and non-polar retention
- Similar to un-bonded silica sorbent in its capabilities
- Reduced retention of basic interferences

Order information:

Cat.#	Format	Qty.
CODI1100	100mg/1mL	100/Box
CODI3200	200mg/3mL	50/Box
CODI3500	500mg/3mL	50/Box
CODI6500	500mg/6mL	30/Box
CODI61000	1000mg/6mL	30/Box
CODI121000	1000mg/12mL	20/Box
CODI122000	2000mg/12mL	20/Box

CN Cyanopropyl SPE

Extracting polar and non-polar compounds, enriching metal ions



CN is a cyanopropyl bounded silica sorbent, weakly hydrophilic, used as normal phase or reversed phase. It is able to extract non-polar or weakly polar acids, neutrals and bases from aqueous solutions when used as a reversed phase sorbent. It is also able to extract polar compounds from nonpolar organic solutions when used as a normal phase sorbent. Besides, cyanopropyl is a ligand that can be used to enrich some metal ions.

CN sorbent will be a better choice to extract strongly hydrophobic compounds which may bind to C18 sorbent irreversibly.

- Compatible with biological matrices
- Polarity adjustable by changing ratio of solvents

Specifications:

Carbon content: 5.8%
Surface area: 280 m²/g
Particle size: 40 - 75 µm
Pore size: 100 Å

Applications:

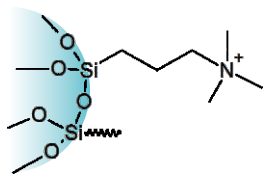
- Analysis of drugs and drug metabolites (such as steroids) in biological fluids
- Determination of residual pesticides / veterinary drugs in food and milk
- Determination of oil pollutants and pesticides in environmental samples

Order information:

Cat. #	Format	Qty.
COCN1100	100mg/1mL	100/Box
COCN3200	200mg/3mL	50/Box
COCN3500	500mg/3mL	50/Box
COCN6500	500mg/6mL	30/Box
COCN61000	1000mg/6mL	30/Box
COCN121000	1000mg/12mL	20/Box
COCN122000	2000mg/12mL	20/Box

SAX Strong Anion Exchange SPE

Extracting acidic compounds



SAX is a silica-based strong anion exchanger. Its quaternary ammonium ligand is always positively charged and engenders very strong anion exchange capacity. SCX is able to extract acidic compounds such as carboxylic acids.

- Very strong anion exchange interaction with acidic compounds
- Capable of retaining compounds that are not retained weak anion exchange sorbents
- Simple retention mechanism, with minimal secondary interactions

Specifications:

Surface area: 510 m²/g
Particle size: 40 - 75 µm
Pore size: 70 Å

Applications:

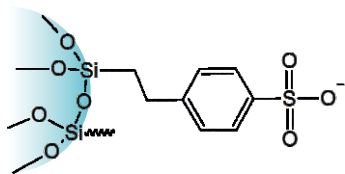
- Removal of negatively charged substances such as organic acids, nucleotides, sulfonic acids and inorganic anions from samples
- Determination of hormones in meat
- Determination of sulfonylurea herbicides in soil, vegetables and cereals

Order information:

Cat. #	Format	Qty.
COSAX130	30mg/1mL	100/Box
COSAX1100	100mg/1mL	100/Box
COSAX3100	100mg/3mL	50/Box
COSAX3200	200mg/3mL	50/Box
COSAX3500	500mg/3mL	50/Box
COSAX6200	200mg/6mL	30/Box
COSAX6500	500mg/6mL	30/Box
COSAX61000	1000mg/6mL	30/Box
COSAX121000	1000mg/12mL	20/Box
COSAX122000	2000mg/12mL	20/Box

SCX Strong Cation Exchange SPE

Extracting basic compounds



SCX is a silica-based strong cation exchanger. Its phenylsulfonic acid ligand engenders strong cation exchange capacity, while the benzene ring gives rise to additional non-polar interactions. SCX is able to extract positively charged basic compounds such as amines.

- Low pKa, enabling strong interaction with basic compounds
- Electrical charge of sulfonic acid changeable by adjusting pH of eluent, ensuring convenient elution

Specifications:

Surface area: 510 m²/g
Particle size: 40 - 75 µm
Pore size: 70 Å

Applications:

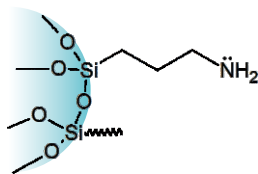
- Determination of residual pesticides / veterinary drugs in foodstuff, such as macrolides
- Determination of illicit drugs, such as amphetamine
- Analysis of drugs and drug metabolites in biological matrices

Order information:

Cat. #	Format	Qty.
COSCX130	30mg/1mL	100/Box
COSCX1100	100mg/1mL	100/Box
COSCX3100	100mg/3mL	50/Box
COSCX3200	200mg/3mL	50/Box
COSCX3500	500mg/3mL	50/Box
COSCX6200	200mg/6mL	30/Box
COSCX6500	500mg/6mL	30/Box
COSCX61000	1000mg/6mL	30/Box
COSCX121000	1000mg/12mL	20/Box
COSCX122000	2000mg/12mL	20/Box

NH₂ Aminopropyl SPE

Extracting moderately polar and acidic compounds



NH₂ sorbent is composed of aminopropyl-bounded silica gel. It retains analytes by strongly polar interactions in organic solutions and by weak anion exchange in aqueous solutions.

- Retaining compounds in normal phase or anion exchange mode
- Capable of cleaning up biological samples with complicated matrix components

Specifications:

Carbon content: 4.5%
Surface area: 200 m²/g
Particle size: 40 - 75 µm
Pore size: 100 Å

Applications:

- Removal of negatively charged species such as sulfuric acids
- Determination of drugs and their metabolites such as β2-adrenergic agonists and salicylic acid in biological fluids (blood and urine)
- Determination of macrolide residues in foods and water

Related methods:

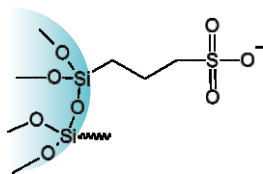
- NY/T 761-2008 Pesticide multiresidue screen methods for determination of organophosphorus pesticides, organochlorine pesticides, pyrethroid pesticides and carbamate pesticides in vegetables and fruits

Order information:

Cat. #	Format	Qty.
CONH1100	100mg/1mL	100/Box
CONH3100	100mg/3mL	50/Box
CONH3200	200mg/3mL	50/Box
CONH3500	500mg/3mL	50/Box
CONH6200	200mg/6mL	30/Box
CONH6500	500mg/6mL	30/Box
CONH61000	1000mg/6mL	30/Box
CONH121000	1000mg/12mL	20/Box
CONH122000	2000mg/12mL	20/Box

PRS Propylsulfonic Acid SPE

Extracting weak bases in biological fluids



PRS is a strong cation exchange sorbent with excellent retention for weakly basic compounds.

PRS shows unique selectivity owing to the absence of non-polar interactions. It is an alternative to SCX if non-polar components in samples couldn't be removed by using the latter.

- High recoveries for pyridinic compounds
- Simple retention mechanism, no non-polar interactions

Specifications:

Carbon content: 4.5%
Surface area: 310 m²/g
Particle size: 40 - 75 µm
Pore size: 100 Å

Applications:

- Determination of drugs and their metabolites in biological fluids
- Determination of basic pollutants such as malachite green, gentian violet, tetrodotoxin and methylene blue

Related methods:

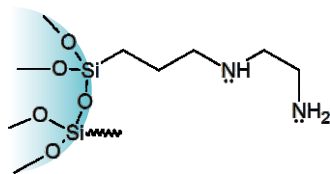
- NY/T 1756-2012 Determination of malachite green in feeds
- GB/T 20361-2006 Determination of malachite green and gentian violet residues in fishery products - High performance liquid chromatography with fluorescence detector

Order information:

Cat.#	Format	Qty.
COPRS1100	100mg/1mL	100/Box
COPRS3200	200mg/3mL	50/Box
COPRS3500	500mg/3mL	50/Box
COPRS6500	500mg/6mL	30/Box
COPRS61000	1000mg/6mL	30/Box
COPRS121000	1000mg/12mL	20/Box

PSA Primary-Secondary Amine SPE

Extracting strong acids, polar compounds and metal ions



PSA sorbent is similar to NH_2 sorbent, offering both normal phase and anion exchange retention mechanisms. Owing to the existence of primary and secondary amino groups (with pK_a values 10.1 and 10.9, respectively), PSA has higher ion exchange capabilities and strong hydrogen bonding. Besides, PSA is able to form chelate complexes with some metal ions and used to enrich them.

- Higher capabilities than NH_2 sorbent
- Effectively removing interferences in food samples

Specifications:

Carbon content: 8%
Surface area: $500 \text{ m}^2/\text{g}$
Particle size: $50 - 75 \mu\text{m}$
Pore size: 100 \AA

Applications:

- Determination of sedatives in body fluids
- Removal of interferences such as fatty acids, organic acids, pigments, sugars and metal ions

Related methods:

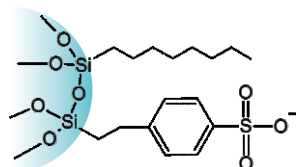
- NY/T 468-2006 Determination of residual clenbuterol in animal tissues gas chromatography/mass spectrometry

Order information:

Cat. #	Format	Qty.
COPSA1100	100mg/1mL	100/Box
COPSA3100	100mg/3mL	50/Box
COPSA3200	200mg/3mL	50/Box
COPSA3500	500mg/3mL	50/Box
COPSA6200	200mg/6mL	30/Box
COPSA6500	500mg/6mL	30/Box
COPSA61000	1000mg/6mL	30/Box
COPSA121000	1000mg/12mL	20/Box
COPSA122000	2000mg/12mL	20/Box

C8/SCX Octyl/Strong Cation Exchange SPE

Extracting basic drugs in biological fluids



Specifications:

Surface area: 510 m²/g
Particle size: 40 - 75 µm
Pore size: 70 Å

Applications:

- Determination of drugs and their metabolites in biological fluids
- Determination of drugs of abuse such as cocaine, acetylcodeine, morphine and ketamine

C8/SCX is composed of silica gel bounded with octyl and phenylsulfonic acid groups at a specific ratio. It's a mixed-mode sorbent with two retention mechanisms: octyl groups provide moderately hydrophobic interactions, phenylsulfonic acid groups provide strong cation exchange

C8/SCX will be a better choice if very strong adsorption in C18, C8 or SCX packing results in difficult elution of some analytes.

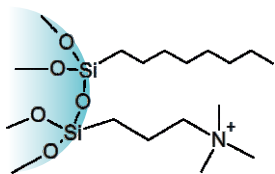
- Moderate retention, avoiding extremely strong adsorption of some compounds
- Ideal for complicated samples such as blood and urine

Order information:

Cat.#	Format	Qty.
COC8SCX1100	100mg/1mL	100/Box
COC8SCX3200	200mg/3mL	50/Box
COC8SCX3500	500mg/3mL	50/Box
COC8SCX6500	500mg/6mL	30/Box
COC8SCX61000	1000mg/6mL	30/Box
COC8SCX121000	1000mg/12mL	20/Box
COC8SCX122000	2000mg/12mL	20/Box

C8/SAX Octyl/Strong Anion Exchange SPE

Extracting acidic drugs in biological fluids



C8/SAX is composed of silica gel bounded with octyl and quaternary ammonium groups at a specific ratio. It's a mixed-mode sorbent with two retention mechanisms: octyl groups provide moderately hydrophobic interactions, quaternary ammonium groups provide strong anion exchange

C8/SAX will be a better choice if very strong adsorption in C18, C8 or SAX packing results in difficult elution of some analytes.

- Moderate retention, avoiding extremely strong adsorption of some compounds
- Ideal for complicated samples such as blood and urine

Specifications:

Surface area: 510 m²/g
Particle size: 40 - 75 µm
Pore size: 70 Å

Applications:

- Determination of drugs and their metabolites in biological fluids, such as barbiturates
- Determination of drugs of abuse such as THC

Order information:

Cat. #	Format	Qty.
COC8SAX1100	100mg/1mL	100/Box
COC8SAX3200	200mg/3mL	50/Box
COC8SAX3500	500mg/3mL	50/Box
COC8SAX6500	500mg/6mL	30/Box
COC8SAX61000	1000mg/6mL	30/Box
COC8SAX121000	1000mg/12mL	20/Box
COC8SAX122000	2000mg/12mL	20/Box

Carb-GCB Graphitized Carbon Black SPE

Extracting herbicides in drinking water

Carb-GCB is composed of sheet-like, nonporous graphitized carbon black with aromatic six-member ring structure and positive charges. It has reversed phase and ion exchange retention mechanisms, retaining non-polar compounds, such as organochlorine pesticides, as well as polar compounds, such as surfactants.

Owing to its sheet-like, nonporous structure, Carb-GCB enables higher extraction speeds and capabilities than silica-based sorbents.

- Higher extraction speed and capability
- Suitable for large volume samples

Specifications:

Surface area: 100-250 m²/g
Particle size: 100-300 mesh

Applications:

- Removal of pigments in vegetables and fruits.
- Determination of organochlorine pesticides, ethyl carbamate, alkaloids and mycotoxins in water, beverages, vegetables and seafood

Related Methods:

- EPA Method 523: Determination of Triazine Pesticides and their Degradates in Drinking Water by Gas Chromatography/Mass Spectrometry (GC/MS)
- EPA Method 535: Measurement of Chloracetanilide and Other Acetamide Herbicide Degradates in Drinking Water by Solid Phase Extraction and Liquid Chromatography/Tandem Mass Spectrometry (LC/MS/MS)

Order information:

Cat.#	Format	Qty.
COGCB1100	100mg/1mL	100/Box
COGCB3200	200mg/3mL	50/Box
COGCB3500	500mg/3mL	50/Box
COGCB6500	500mg/6mL	30/Box
COGCB61000	1000mg/6mL	30/Box
COGCB121000	1000mg/12mL	20/Box
COGCB122000	2000mg/12mL	20/Box



Carb-GCB/NH₂ Graphitized Carbon Black/ Aminopropyl Bilayer SPE

Cleanup of samples in multiresidual pesticide analysis

Carb-GCB/NH₂ combines the merits of both Carb-GCB and NH₂ sorbents and is able to remove interfering compositions such as pigments, sterols and fatty acids in food samples, making it an effective packing for cleaning samples up in multiresidual pesticide analysis.

- Ultrathin frits between two sorbent layers promising uniform flow
- Capable of removing interferences as thoroughly as possible

Specifications for Carb-GCB:

Surface area: 100-250 m²/g
Particle size: 100-300 mesh

Specifications for NH₂:

Carbon content: 4.5%
Surface area: 200 m²/g
Particle size: 40-75 µm
Pore size: 100 Å

Applications:

- Analysis of multiresidual pesticides in foods

Related methods:

- NY/T 1379-2007 Multi-residue Determination of 334 Pesticides in Vegetable by GC/MS and LC/MS



Order information:

Cat. #	Format	Qty.
CONHGC32525	250mg/250mg/3mL	50/Box
CONHGC655	500mg/500mg/6mL	30/Box
CONHGC653	300mg/500mg/6mL	30/Box

Carb–GCB/PSA Graphitized Carbon Black/ Primary-Secondary Amine Bilayer SPE

Cleanup of samples in multiresidual pesticide analysis

Carb–GCB/PSA is a sorbent similar to Carb–GCB/NH₂ and suitable for cleaning samples up in multiresidual pesticide analysis.

Due to its additional secondary amino groups, PSA has higher ion exchange capability and ability to chelate some metal ions, thus providing Carb–GCB/PSA with unique selectivity different from Carb–GCB/NH₂.

- Ultrathin frits between two sorbent layers promising uniform flow
- Capable of removing interferences as thoroughly as possible
- Higher capabilities than Carb–GCB/NH₂

Specifications for Carb-GCB:

Surface area: 100-250 m²/g
Particle size: 100-300 mesh

Specifications for PSA:

Carbon content: 8%
Surface area: 500 m²/g
Particle size: 50 - 75 µm
Pore size: 100 Å

Applications:

- Analysis of multiresidual pesticides in foods
- Determination of residual neonicotinoid pesticides in soil, fruit and wine samples

Order information:

Cat.#	Format	Qty.
COPSGC32525	250mg/250mg/3mL	50/Box
COPSGC655	500mg/500mg/6mL	30/Box
COPSGC653	300mg/500mg/6mL	30/Box

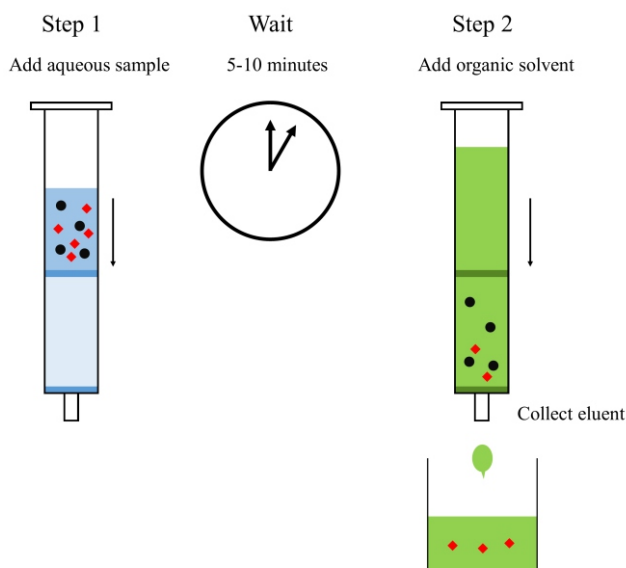


SLE Supported Liquid Extraction

Novel methodology for liquid-liquid extraction

Supported Liquid Extraction (SLE) is a very efficient and economical sample preparation methodology. Extracting analytes from aqueous samples is achieved with a simple two-step protocol, i.e., loading and elution.

- High recoveries, more reproducible
- Simplified protocols, less time-consuming
- No need to vigorous shaking, no emulsion formation
- Using less amount of organic solvents, reducing cost
- Easy to automation and parallel manipulation



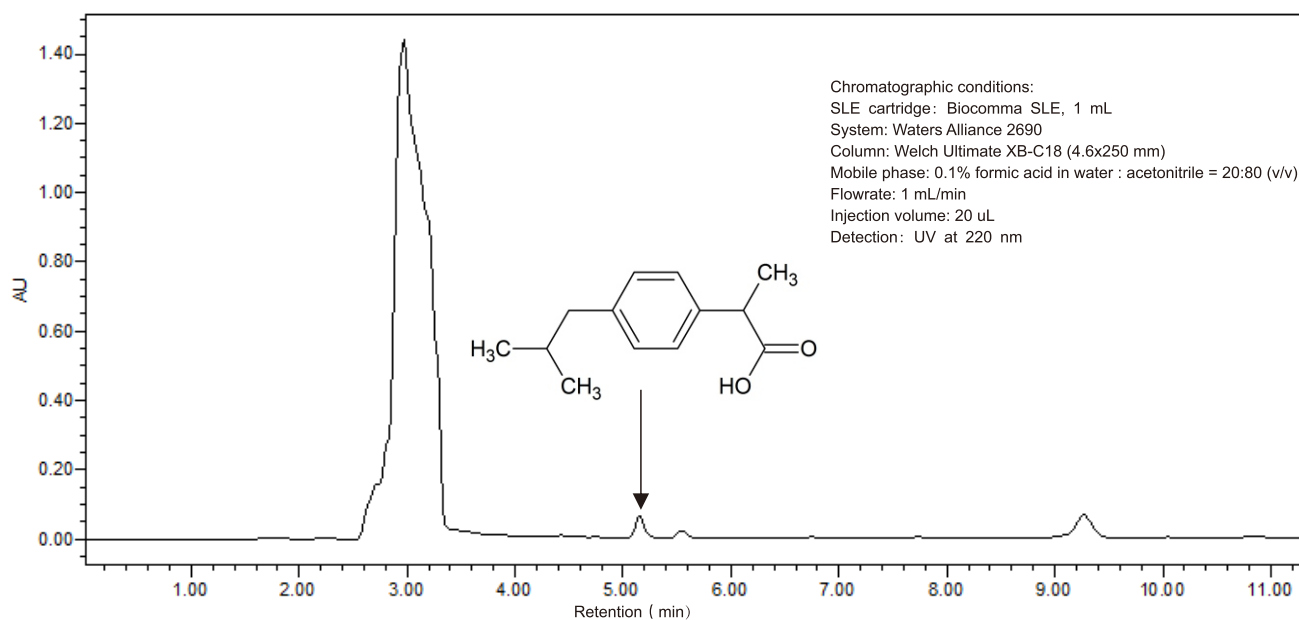
Applications:

SLE is widely used in food safety, environmental protection, clinical diagnosis, forensic science and material inspection, for example:

- Analysis of drugs and drug metabolites in biological fluids, such as antidepressant sertraline and anti-inflammatory drug ibuprofen
- Determination of parabens in cosmetics, pharmaceuticals and foodstuffs.

In SLE, porous diatomaceous earth with high surface area and low chemical activity is packed as stationary support for liquid-liquid partition. While loading a sample, the aqueous sample solution passes through diatomaceous earth beads, allowed to adsorb via capillary action, forming a thin membrane. Then, a small volume of organic solvent percolates and produces an aqueous-organic interface. Because the mass transfer occurs in extreme short paths, analytes can partition very efficiently between the two phases.

Example: extracting ibuprofen in human serum using Biocomma SLE



Results show that recoveries greater than 79.7% are achieved in extracting ibuprofen from human serum by using Biocomma SLE (1 mL).



Order information:

Cat. #	Format	Qty.
COSLE1CC	SLE Cartridges, 1 mL	100/Box
COSLE3CC	SLE Cartridges, 3 mL	50/Box
COSLE6CC	SLE Cartridges, 6 mL	30/Box
COSLE12CC	SLE Cartridges, 12 mL	20/Box



Overview

In 2003, Michelangelo Anastassiades and Steven J Lehotay scientists who developed similar groundbreaking methods to simplify the way labs prepare food samples pesticide analysis. It's called QuEChERS. The "QuEChERS" (Quick, Easy, Cheap, Effective, Rugged, and Safe) method, dispersive SPE (dSPE), is a sample prep technique that has become popular in the area of multi-residue pesticide analysis in food and agricultural products..

Biocomma offers standard EN or AOAC QuEChERS kits, and also offers customized QuEChERS kits for customers, including different specifications of the centrifuge tube, extraction tube, purification tubes and reagents to help you quickly establish a standard detection method.



Features:

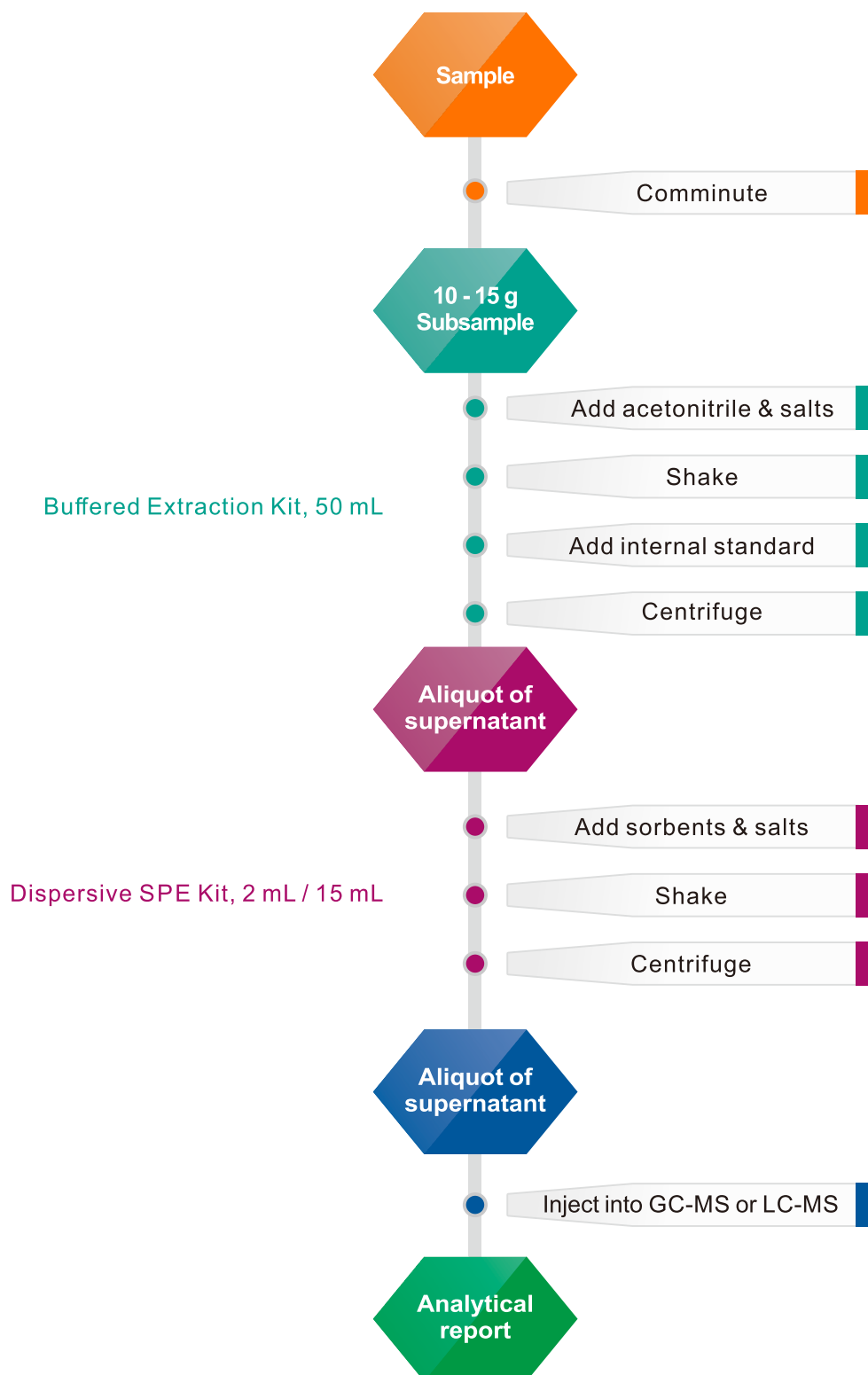
- ◆ Satisfactory recoveries for a wide variety of pesticides, veterinary drugs and additives in many food matrices
- ◆ Streamlined procedure with few simple steps, lowering potential for errors
- ◆ Minimal organic solvent usage, safer for analysts and environment-friendly
- ◆ Saving time and cost significantly

Related Methods:

Biocomma provides QuEChERS kits dedicated for most common methods:

- ◆ **NY/T 1380-2007** Determination of 51 Pesticides Residues in Fruits and Vegetables GC-MS
- ◆ **EN 15662** Foods of plant origin - Determination of pesticide residues using GC-MS and/or LC-MS/MS following acetonitrile extraction/partitioning and clean-up by dispersive SPE - QuEChERS-method
- ◆ **AOAC Official Method 2007.01** Pesticide Residues in Foods by Acetonitrile Extraction and Partitioning with Magnesium Sulfate

Workflow



QuEChERS Extraction Kits

Copure® QuEChERS includes extraction pouches and 50 mL centrifuge tubes, ceramic homogenizers are optional.

The pouches contain anhydrous extraction salts. Among the mixture, MgSO₄ is responsible for removing water in samples, while other components are responsible for maintaining appropriate pH to ensure the recoveries of alkaline-sensitive pesticides.

Directly adding water-abundant samples into tubes containing extraction salts may cause local overheating which compromise the resulting recoveries. To avoiding such situations, Biocomma provides separate extraction salt pouches that the operator can add extraction salts after the addition of organic solvents.

Copure® QuEChERS salts are sealed in aluminum foil bags to avoid leakage. The type and amount are printed on the bag for handy choice. The easy-cut mark is very convenient for use. Our automated powder dispensing & packaging assembly line promise the accuracy and repeatability.



Ordering information

Extraction Kit	Size	Contents	Qty.	Cat. #
AOAC Extraction Kit (Extraction salts +50mL Tube)	50 mL	6 g MgSO ₄ 1.5 g NaOAc	50/Box	COQ050020
AOAC Extraction Pouch	50 mL	6 g MgSO ₄ 1.5 g NaOAc	50/Box	COQP6150
EN Extraction Kit (Extraction salts +50mL Tube)	50 mL	4 g MgSO ₄ 1 g NaCl 1 g Trisodium Citrate 0.5 g Disodium Citrate	50/Box	COQ050010
EN Extraction Pouch	50 mL	4 g MgSO ₄ 1 g NaCl 1 g Trisodium Citrate 0.5 g Disodium Citrate	50/Box	COQP4115
Original Method (Extraction salts +50mL Tube)	50 mL	4 g MgSO ₄ 1 g NaCl	50/Box	COQ050030
Original Method Pouch	50 mL	4 g MgSO ₄ 1 g NaCl	50/Box	COQP4100
Ceramic Homogenizers	50 mL	Ceramic Homogenizers Suit for 50 mL Tubes	100/Box	009903B



QuEChERS Dispersive SPE Kits

Copure® QuEChERS Dispersive SPE Kits include sorbents and MgSO₄, 2 mL and 15 mL centrifuge tubes, ceramic homogenizers are optional as well.

The sorbents include PSA/C18-EC/GCB, etc. PSA is to remove the fatty acids and organic acids in samples. C18-EC is to remove the fats in samples, GCB is to remove the pigments in samples. Choose appropriate sorbent combination with different samples.

Order Information

AOAC 2007.01 Kits:

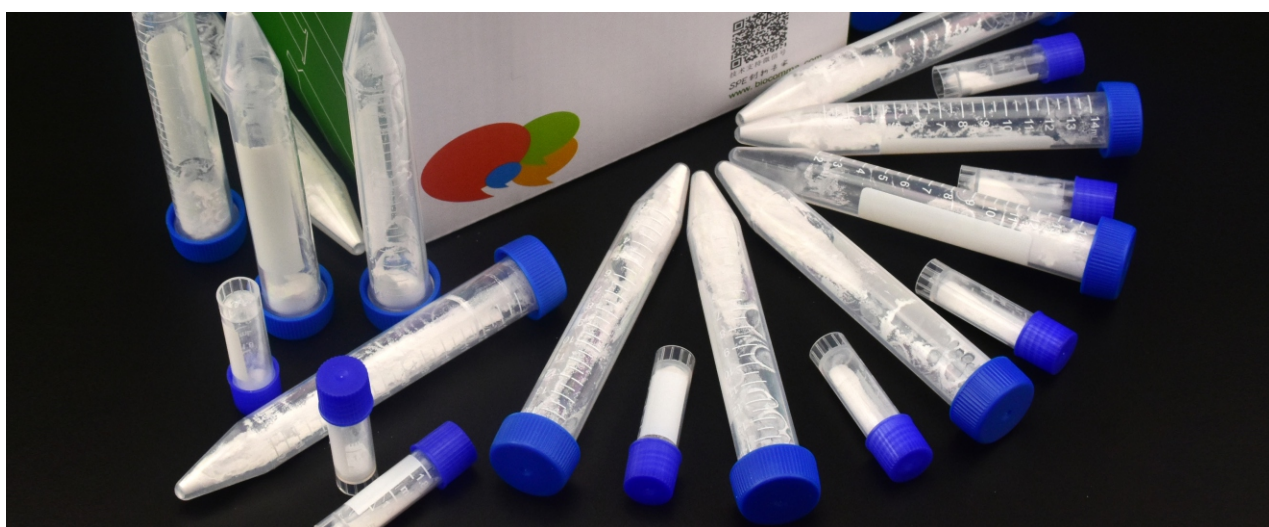
Application	Contents	Size	Qty.	Cat. #
General fruits and vegetables:	50 mg PSA 150 mg MgSO ₄	2 mL	100/Box	COQ002031
	400 mg PSA 1200 mg MgSO ₄	15 mL	50/Box	COQ015031
Fruits and vegetables with fats and waxes:	50 mg PSA 50 mg C18 150 mg MgSO ₄	2 mL	100/Box	COQ002033
	400 mg PSA 400 mg C18 1200 mg MgSO ₄	15 mL	50/Box	COQ015033
Pigmented fruits and vegetables:	50 mg PSA 50 mg GCB 150 mg MgSO ₄	2 mL	100/Box	COQ002036
	400 mg PSA 400 mg GCB 1200 mg MgSO ₄	15 mL	50/Box	COQ015036
Fruits and vegetables with pigments and fats:	50 mg PSA 50 mg C18 50 mg GCB 150 mg MgSO ₄	2 mL	100/Box	COQ002040
	400 mg PSA 400 mg C18 400 mg GCB 1200 mg MgSO ₄	15 mL	50/Box	COQ015040
Other Food Methods:	25 mg C18 150 mg MgSO ₄	2 mL	100/Box	COQ002025
	150 mg C18 900 mg MgSO ₄	15 mL	50/Box	COQ015025
All Food Types:	50 mg PSA 50 mg C18 7.5 mg GCB 150 mg MgSO ₄	2 mL	100/Box	COQ002035
	400mg PSA 400 mg C18 45 mg GCB 1200 mg MgSO ₄	15 mL	50/Box	COQ015035

EN 15662 Kits:

Application	Contents	Size	Qty.	Cat. #
General fruits and vegetables:	25 mg PSA 150 mg MgSO ₄	2 mL	100/Box	COQ002030
	150 mg PSA 900 mg MgSO ₄	15 mL	50/Box	COQ015022
Fruits and vegetables with fats and waxes:	25 mg PSA 25 mg C18 150 mg MgSO ₄	2 mL	100/Box	COQ002032
	150 mg PSA 150 mg C18 900 mg MgSO ₄	15 mL	50/Box	COQ015032
Pigmented fruits and vegetables:	25 mg PSA 2.5 mg GCB 150 mg MgSO ₄	2 mL	100/Box	COQ002020
	150 mg PSA 15 mg GCB 900 mg MgSO ₄	15 mL	50/Box	COQ015020
Highly pigmented fruits and vegetables:	25 mg PSA 7.5 mg GCB 150 mg MgSO ₄	2 mL	100/Box	COQ002024
	150 mg PSA 45 mg GCB 900 mg MgSO ₄	15 mL	50/Box	COQ015024

Ceramic Homogenizers

Product	Size	Application	Qty.	Cat. #
Ceramic Homogenizers	15 mL	Ceramic Homogenizers for 15 mL Tubes	100/PK	009902B
Ceramic Homogenizers	2 mL	Ceramic Homogenizers for 2 mL Tubes	100/PK	009901B



QuEChERS Salt/Sorbent Pouches

The innovative Salt/Sorbent Pouches offer more flexible options and services for customers. Produced in the automated powder dispensing & packaging assembly line, the pouches can be delivered quickly. With an easy-tear line on the top of the pouch, user experience in laboratories has significantly improved.

Centrifuge tubes can either be purchased from Biocomma or obtained from local suppliers to save shipment costs.

Order Information

AOAC 2007.01 Method

Application	Contents	Size	Qty.	Cat. #
Extraction kit:	6 g MgSO ₄ 1.5 g NaOAc	50 mL	100/PK	Q050020P
General fruits and vegetables:	400 mg PSA 1200 mg MgSO ₄	15 mL	100/PK	Q015031P
Fruits and vegetables with fats and waxes:	400 mg PSA 400 mg C18 1200 mg MgSO ₄	15 mL	100/PK	Q015033P
Pigmented fruits and vegetables:	400 mg PSA 400 mg GCB 1200 mg MgSO ₄	15 mL	100/PK	Q015036P
Fruits and vegetables with pigments and fats:	400 mg PSA 400 mg C18 400 mg GCB 1200 mg MgSO ₄	15 mL	100/PK	Q015040P
Other Food Methods:	150 mg C18 900 mg MgSO ₄	15 mL	100/PK	Q015025P
All Food Types:	400mg PSA 400 mg C18 45 mg GCB 1200 mg MgSO ₄	15 mL	100/PK	Q015035P

EN 15662 Method

Application	Contents	Size	Qty.	Cat. #
Extraction kit:	4 g MgSO ₄ 1 g NaCl 1 g NaCitrate 0.5 g disodium citrate sesquihydrate	50 mL	100/PK	Q050010P
General fruits and vegetables:	150 mg PSA 900 mg MgSO ₄	15 mL	100/PK	Q015022P
Fruits and vegetables with fats and waxes:	150 mg PSA 150 mg C18 900 mg MgSO ₄	15 mL	100/PK	Q015032P
Pigmented fruits and vegetables:	150 mg PSA 15 mg GCB 900 mg MgSO ₄	15 mL	100/PK	Q015020P
Highly pigmented fruits and vegetables:	150 mg PSA 45 mg GCB 900 mg MgSO ₄	15 mL	100/PK	Q015024P

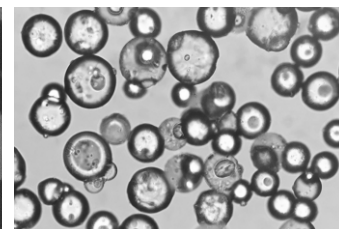
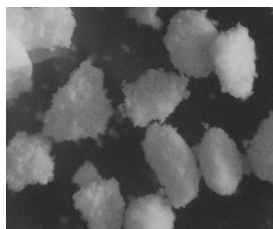
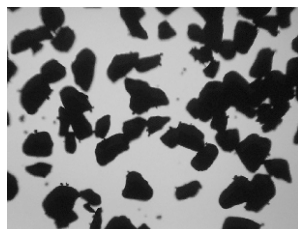


QuEChERS Bulk Sorbents

Biocomma provides superior quality QuEChERS bulk sorbents which have been verified by our lab, optional selection at your requirement is available.

Order Information

Sorbent	Specification	Qty.	Cat. #
PSA	Carbon Content : 8% Surface area : 500 m ² /g Particle size : 50-75 µm Pore size : 100 Å	100 g	PSA-2-100
C18	Carbon Content : 17.6% Surface area : 300 m ² /g Particle size : 40-60 µm Pore size : 120 Å	100 g	C18-1-100
Carb-GCB	Surface area : 100 m ² /g Particle size : 100-200 Mesh	50 g	GCB-1-50
Anhydrous MgSO ₄	AR Grade	1 Kg	MGSO4-1
NaOAc	AR Grade	1 Kg	NAOAC-1
NaCl	AR Grade	1 Kg	NACL-1
Trisodium Citrate	AR Grade	1 Kg	CIT-1
Disodium Citrate	AR Grade	1 Kg	CIT2-1

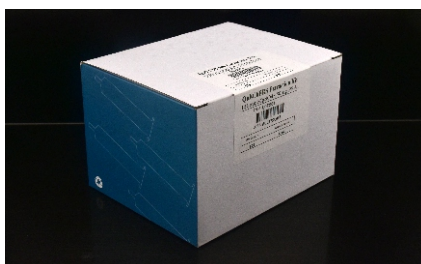


More Customization



Formulation

Custom Sorbents
Custom Ratios
Application-Specific
Optimization



Packaging

Brand Logos
Custom Brand Packages
Neutral Packages



Applications

Pesticide Residues
Veterinary Drug Residues
Application-Specific
Solutions



QUECHERS



SLE Cartridges for Azo Dye Testing

Determination of banned azo dyes in textile products

Most currently-used dyes and pigments in textile and leather industries are azo compounds which, under reductive conditions, are decomposed to form fatty or aromatic amines. Among amines derived from azo compounds, some aromatic amines are believed to be carcinogenic or potentially carcinogenic and banned in EU, the U.S. and China.

Biocomma provides SLE cartridges dedicatedly optimized for determining banned azo dyes in textile products, helping you manage product quality quickly and reliably and protect health of your customers.

- Packed with dedicatedly optimized diatomaceous earth
- Frits with excellent flowrate control technology
- Complying with China and EU official methods
- Superb performance proven by China's most authoritative textile testing institute



Typical recoveries:

Analyte	Recovery(%)
2,4-diaminoanisole	>20
o-toluidine	>50
2,4-diaminotoluene	>50
other aromatic amines	>70

Related methods:

- GB/T 17592-2011 Textiles - Determination of the banned azo colourants
- EN 14362-1:2012 Textiles - Methods for determination of certain aromatic amines derived from azo colorants

Order information:

Cat.#	Description	Qty.
COAZO060	SLE Cartridges for Azo Dye Testing	4/PK

Cartridges for Plasticizer Testing

Determination of phthalate esters in foods

Plasticizers currently used in plastic food contact materials and their products are mostly phthalate esters (PAEs), some of which are carcinogenic and reproductively toxic. As toxic PAEs leached into food cause health risks for human beings, their use is strictly limited in EU, the U.S., China, Japan, etc.

Biocomma's cartridges for plasticizer testing are made of glass tubes and PTFE frits that prevent impurities from being introduced into the sample. Dedicatedly optimized PSA sorbent also enables thorough cleanup and satisfactory recoveries for official methods.

- Chemically inert glass tubes
- High purity PTFE frits
- Satisfactory recoveries for official methods

Applications:

- Determination of phthalate esters in foods

Related methods:

- SN/T 3147-2012 Determination of phthalate esters in foods for export

Order information:

Cat.#	Description	Qty.
COPAE61000	Cartridges for Plasticizer Testing, 1g/6mL	30/PK



Immunoaffinity Cartridges for Mycotoxin Testing

Determination of mycotoxins such as aflatoxins

Immunoaffinity solid phase extraction is based on the antibody-antigen reaction between mycotoxins and their immobilized antibodies. Owing to their specificities and selectivities, immunoaffinity cartridges are ideal for extracting mycotoxins such as aflatoxins from complicated samples.

- Hydrophilic frits with uniform flow and extremely low protein binding
- Highly selective packing materials
- Complying with official methods



Applications:

- Determination of mycotoxins in foods, wines and milk products

Related methods:

- GB 5413.37-2010 National food safety standard Determination of aflatoxin M1 in milk and milk products
- GB/T 23502-2009 Determination of ochratoxin A in food—High performance liquid chromatographic method with immunoaffinity column clean-up
- GB/T 28716-2012 Determination of zearalenone in feed—High performance liquid chromatographic method with immunoaffinity column clean-up

Order information:

Cat. #	Description	Qty.
COAFMB101	Immunoaffinity Cartridges for Aflatoxin B1 Testing, 1 mL	25/Box
COAFMB103	Immunoaffinity Cartridges for Aflatoxin B1 Testing, 3 mL	20/Box
COAFMM101	Immunoaffinity Cartridges for Aflatoxin M1 Testing, 1 mL	25/Box
COAFMM103	Immunoaffinity Cartridges for Aflatoxin M1 Testing, 3 mL	20/Box
COAFMT101	Immunoaffinity Cartridges for Total aflatoxin Testing, 1 mL	25/Box
COAFMT103	Immunoaffinity Cartridges for Total aflatoxin Testing, 3 mL	20/Box
COAFDON101	Immunoaffinity Cartridges for Deoxynivalenol Testing, 1 mL	25/Box
COAFDON103	Immunoaffinity Cartridges for Deoxynivalenol Testing, 3 mL	20/Box
COAFOCH101	Immunoaffinity Cartridges for Ochratoxin A Testing, 1 mL	25/Box
COAFOCH103	Immunoaffinity Cartridges for Ochratoxin A Testing, 3 mL	20/Box
COAFZEA101	Immunoaffinity Cartridges for Zearalenone Testing, 1 mL	25/Box
COAFZEA103	Immunoaffinity Cartridges for Xearalenone Testing, 3 mL	20/Box
COAFT2101	Immunoaffinity Cartridges for T-2 Toxin Testing, 1 mL	25/Box
COAFT2103	Immunoaffinity Cartridges for T-2 Toxin Testing, 3 mL	20/Box

Destaining Cartridges for Chrome (VI) Testing

Chrome (VI) in leather articles are converted from Chrome (III) in the process of leather production. The toxic substance has been banned by China and EU. To determine Chrome (VI), pigments in leather should be removed first.

Destaining cartridges for Chrome (VI) testing are dedicatedly optimized, capable of helping you remove pigments in leather samples and protect consumers.

Optimized for destaining leather samples
Improved recovery and repeatability
Complying with official methods

Applications:

- Determination of Chrome (VI) in leather.

Related methods:

- ISO 17075:2007 Leather -- Chemical tests -- Determination of chromium(VI) content
- GB/T 22807-2008 Leather and fur—Chemical tests—Determination of chromium VI content

Order information:

Cat. #	Description	Qty.
COPACR36	Destaining Cartridges for Chrome (VI) Testing, 500mg/3mL	50/Box
COPACR66	Destaining Cartridges for Chrome (VI) Testing, 500mg/6mL	30/Box
COPACR121	Destaining Cartridges for Chrome (VI) Testing, 1000mg/12mL	20/Box



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 Snap-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

18mm Precision screw-thread 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

Crimp-top headspace 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 µ L	5x29 mm	100/Box
SI-2	Glass inserts with mandrel interior and polypropylene feet, for 9-425 screw-thread vials	250 µ L	5.7x29 mm	100/Box
SI-3	Flat-bottom glass inserts, for 8-425 screw-thread vials	250 µ L	5x31 mm	100/Box
SI-4	Flat-bottom glass inserts, for 9-425 screw-thread vials	300 µ L	6x31 mm	100/Box

Note: for vials and caps of other specs, please contact us.

Syringe Filters

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

Polytetrafluoroethylene (PTFE) Syringe Filters

Cat. #	Description	Qty.
SF130-22-PTFE	PTFE / Φ13 mm / 0.22 µm / Hydrophobic	100/Box
SF130-45-PTFE	PTFE / Φ13 mm / 0.45 µm / Hydrophobic	100/Box
SF250-22-PTFE	PTFE / Φ25 mm / 0.22 µm / Hydrophobic	100/Box
SF250-45-PTFE	PTFE / Φ25 mm / 0.45 µm / Hydrophobic	100/Box

Nylon Syringe Filters

Cat. #	Description	Qty.
SF130-22-NL	Nylon / Φ13 mm / 0.22 µm / Hydrophobic	100/Box
SF130-45-NL	Nylon / Φ13 mm / 0.45 µm / Hydrophobic	100/Box
SF250-22-NL	Nylon / Φ25 mm / 0.22 µm / Hydrophobic	100/Box
SF250-45-NL	Nylon / Φ25 mm / 0.45 µm / Hydrophobic	100/Box

Polyvinylidene Fluoride (PVDF) Syringe Filters

Cat. #	Description	Qty.
SF130-22-PVDF	PVDF / Φ13 mm / 0.22 µm / Hydrophobic	100/Box
SF130-45-PVDF	PVDF / Φ13 mm / 0.45 µm / Hydrophobic	100/Box
SF250-22-PVDF	PVDF / Φ25 mm / 0.22 µm / Hydrophobic	100/Box
SF250-45-PVDF	PVDF / Φ25 mm / 0.45 µm / Hydrophobic	100/Box

Polyethersulfone (PES) Syringe Filters

Cat. #	Description	Qty.
SF130-22-PES	PES / Φ13 mm / 0.22 µm / Hydrophilic	100/Box
SF130-45-PES	PES / Φ13 mm / 0.45 µm / Hydrophilic	100/Box
SF250-22-PES	PES / Φ25 mm / 0.22 µm / Hydrophilic	100/Box
SF250-45-PES	PES / Φ25 mm / 0.45 µm / Hydrophilic	100/Box

Mixed Cellulose Ester (MCE) Syringe Filters

Cat. #	Description	Qty.
SF130-22-MCE	MCE / Φ13 mm / 0.22 µm / Hydrophilic	100/Box
SF130-45-MCE	MCE / Φ13 mm / 0.45 µm / Hydrophilic	100/Box
SF250-22-MCE	MCE / Φ25 mm / 0.22 µm / Hydrophilic	100/Box
SF250-45-MCE	MCE / Φ25 mm / 0.45 µm / 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

Note: for sterilized syringe filters, please contact us.



Microfiltration Membranes

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

Nylon Microfiltration Membrane

Cat. #	Description	Qty.
MF047-22-NL	Nylon / Φ47 mm / 0.22 µm	200/Box
MF047-45-NL	Nylon / Φ47 mm / 0.45 µm	200/Box
MF090-22-NL	Nylon / Φ90 mm / 0.22 µm	100/Box
MF090-45-NL	Nylon / Φ90 mm / 0.45 µm	100/Box

Polyvinylidene Fluoride (PVDF) Microfiltration Membrane

Cat. #	Description	Qty.
MF047-22-PVDF	PVDF / Φ47 mm / 0.22 µm	200/Box
MF047-45-PVDF	PVDF / Φ47 mm / 0.45 µm	200/Box
MF090-22-PVDF	PVDF / Φ90 mm / 0.22 µm	100/Box
MF090-45-PVDF	PVDF / Φ90 mm / 0.45 µm	100/Box

Polytetrafluoroethylene (PTFE) Microfiltration Membrane

Cat. #	Description	Qty.
MF047-22-PTFE	PTFE / Φ47 mm / 0.22 µm	200/Box
MF047-45-PTFE	PTFE / Φ47 mm / 0.45 µm	200/Box
MF090-22-PTFE	PTFE / Φ90 mm / 0.22 µm	100/Box
MF090-45-PTFE	PTFE / Φ90 mm / 0.45 µm	100/Box

Mixed Cellulose Ester (MCE) Microfiltration Membrane

Cat. #	Description	Qty.
MF047-22-MCE	MCE / Φ47 mm / 0.22 µm	200/Box
MF047-45-MCE	MCE / Φ47 mm / 0.45 µm	200/Box
MF090-22-MCE	MCE / Φ90 mm / 0.22 µm	100/Box
MF090-45-MCE	MCE / Φ90 mm / 0.45 µm	100/Box

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



Accessories

Connectors



The step cone-shaped connector is equipped with one female Luer port and suitable for 1, 3, 6, 12-mL cartridges.

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

Washers



Washers are used to fix frits in cartridges.

Cat. #	Description	Qty.
CT003	Washers for 3-mL Tubes	1,000/PK
CT006	Washers for 6-mL Tubes	1,000/PK
CT012	Washers for 12-mL Tubes	1,000/PK
CT030	Washers for 30-mL Tubes	1,000/PK
CT300	Washers for 300-mL Tubes	1,000/PK

Flow Regulators



Flow regulators are used to adjust flowrate by connecting with cartridges via Luer ports and work with cartridges of various sizes.

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

96-Well Vacuum Manifolds



Each manifold is equipped with one erosion-resistant base, one air valve and one vacuum guage.

Cat. #	Description	Qty.
M96	96-Well Vacuum Manifold	EA/PK

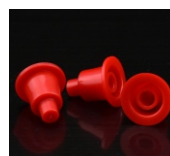
Top and Bottom Caps for SPE Cartridges



Top caps of different sizes are suitable for 1/3/6/12/60-mL tubes respectively, available in green, red or white. Bottom caps are suitable for Luer outlets of all-size tubes, available in white.

Cat.#	Description	Qty.
UC001	Top Caps for 1-mL Tubes	1,000/PK
UC003	Top Caps for 3-mL Tubes	1,000/PK
UC006	Top Caps for 6-mL Tubes	1,000/PK
UC012	Top Caps for 12-mL Tubes	1,000/PK
UC030	Top Caps for 30-mL Tubes	1,000/PK
UC060	Top Caps for 60-mL Tubes	1,000/PK
LC-1	Bottom Caps for SPE Tubes	1,000/PK

Luer-Inlet Upper Caps



The 3-mL Luer-inlet upper cap is used with our 3-mL SPE / AC cartridges, enabling easy connection through its elastic Luer-inlet.

Cat. #	Description	Qty.
UC003-BC-N	Luer-Inlet Upper Caps	1,000/PK

Empty SPE Cartridges

Each biocomma® empty SPE cartridge consists of one empty tube, one top frit and one bottom frit, empowering customers to pack SPE cartridges with their own sorbents for various needs in laboratories.

Plastic empty SPE cartridges: injection-molded medical-grade PP tubes with Luer outlets, PE frits, fixing rings for large-volume tubes.

Glass empty SPE cartridges: cast high-purity glass tubes with Luer outlets, PTFE frits.

Plastic empty Luer-inlet SPE cartridges: injection-molded medical-grade PP tubes with Luer inlets and Luer outlets, PE frits.



- Straight walled syringe barrel tubes, made from polypropylene
- Luer-inlet designed for easy connection with solvent reservoirs and pumps
- Ultrapure sintered PE frits, enabling high-sensitivity analysis
- 8 Different volumes from 1 mL to 300 mL

Order information:

Cat. #	Description	Qty.
004101	1-mL Empty SPE Cartridges	500/Box
004102	3-mL Empty SPE Cartridges	100/Box
004103	6-mL Empty SPE Cartridges	100/Box
004114	12-mL Empty SPE Cartridges	100/Box
004112	20-mL Empty SPE Cartridges	50/Box
004105	30-mL Empty SPE Cartridges	50/Box
004106	60-mL Empty SPE Cartridges	50/Box
004113	300-mL Empty SPE Cartridges	10/Box
004151	6-mL Empty SPE Cartridges, Glass Tubes, PTFE Frits	12/Box
004152	12-mL Empty SPE Cartridges, Glass Tubes, PTFE Frits	8/Box
004301	1-mL Empty Luer-Inlet SPE Cartridges	1,000/Box



Frits for SPE Cartridges

biocomma® frits are core parts of our laboratory solid-phase separation products. Such sintered porous polyethylene frits are Biocomma's innovation to SPE industry.

Frits immobilize sorbents and control flowrates, as indispensable parts of SPE cartridges.

Optimized in flowrate control, purity, stability and solvent compatibility, biocomma frits for SPE have proven to be an ideal choice for SPE cartridges.



- Frits are made from high-quality UHMW-PE, suitable for ultra-sensitive analysis
- Optimized uniform flowrate design is in favor of parallel SPE processing
- Ultrapur sintered PE frits, enabling high-sensitivity analysis
- Different sorbents can be compartmentalized with ultrathin frits (as thin as 1.2 mm) in layered cartridges

Order information:

Cat. #	Description	Height	Used For	Qty.
SPEF058-16-20	5.8 mm	1.6 mm	1-mL SPE Tubes	1,000/Box
SPEF090-25-20	9.0 mm	2.5 mm	3-mL SPE Tubes	1,000/Box
SPEF091-25-20	9.1 mm	2.5 mm	3-mL SPE Tubes	1,000/Box
SPEF130-12-20	13.0 mm	1.2 mm	6-mL SPE Tubes	1,000/Box
SPEF130-16-20	13.0 mm	1.6 mm	6-mL SPE Tubes	1,000/Box
SPEF130-25-20	13.0 mm	2.5 mm	6-mL SPE Tubes	1,000/Box
SPEF158-25-20	15.8 mm	2.5 mm	12-mL SPE Tubes	1,000/Box
SPEF197-25-20	19.7 mm	2.5 mm	20-mL SPE Tubes	1,000/Box
SPEF236-25-20	23.6 mm	2.5 mm	30-mL SPE Tubes	1,000/Box
SPEF266-25-20	26.6 mm	2.5 mm	60-mL SPE Tubes	1,000/Box
SPEF495-25-20	49.5 mm	2.5 mm	300-mL SPE Tubes	100/Box
SPEF066-16-20	6.0 mm	1.6 mm	1-mL 96-Well Plates	1,000/Box
SPEF070-16-20	7.0 mm	1.6 mm	1.5-mL 96-Well Plates	1,000/Box
SPEF083-16-20	8.3 mm	1.6 mm	1.5-mL 96-Well Plates	1,000/Box



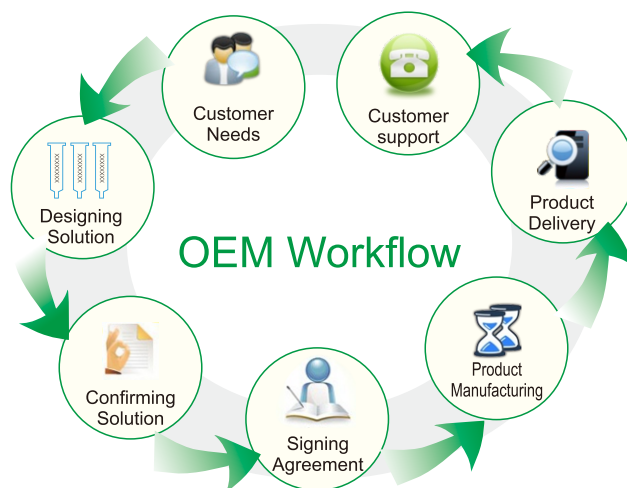
OEM/ODM

From product development to customer support, Biocomma help you create your SPE brand

Advantages from Choosing Biocomma

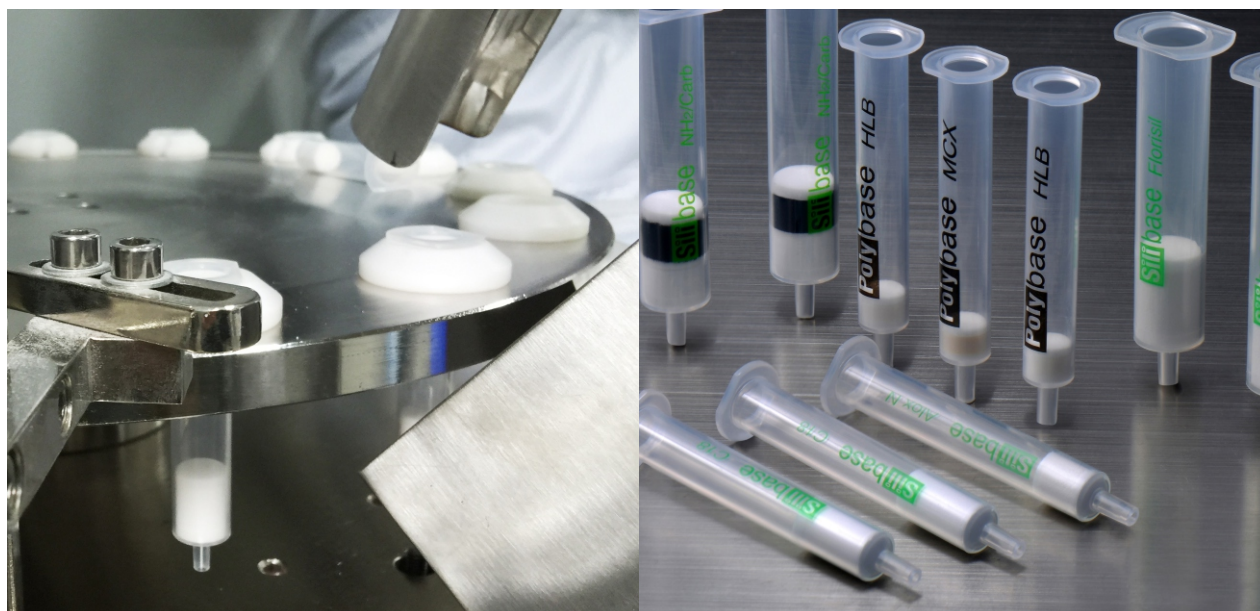
- Tubes and sorbents can be either Biocomma or customer supplied
- Production capacity is up to 10,000 cartridges per day, promising quick delivery
- All cartridges are assembled in a certificated sterilized and DNase-free cleanroom
- Formats including cartridges, 96-well plates, spin columns, online columns and Luer-inlet cartridges are available, and special formats can be designed by Biocomma or molded from customer drawings
- Biocomma provides customer support

OEM Workflow



OEM Product Range

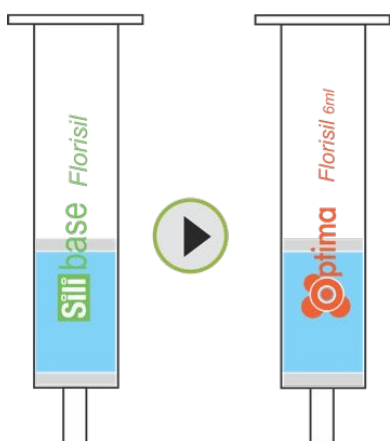
- More than 30 sorbents are provided by Biocomma. Alternative sorbents can also be provided by customers.
- Cartridges, 96-well plates and online columns and other formats are available, meeting various needs.



B2B

10 years of experience in development, manufacturing and OEM services of SPE products.

One Step for Brand conversion



Biocomma's SPE brands include Polybase™ and Silibase™.

You can create your own SPE brand with our SPE specifications as reference.

It is as easy as printing a logo to create your our brand.

Abundant Sorbents

Abundant sorbents can be chosen from Biocomma's inventory. Each sorbent can be fine-tuned regarding to several parameters so as to help you build unique SPE products, archiving marketing differentiation. For example, we provide 4 variants of HLB sorbent.

Diverse Formats

Cartridges, 96-well plates, spin columns, online columns, Luer-inlet cartridges and glass cartridges are available.

Silk Screen Logos

Logos are printed on cartridges by silk screen printing. Logo printing is free for each SKU over 100 cartridges.

SPE Packaging

Biocomma provides aluminum foil bags and cartons for product packaging. Labels are printed according to customer's requirements.



ISO 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, P. 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

K. Jüng

TÜV Rheinland Cert GmbH
Am Grauen Stein · 51105 Köln

www.tuv.com



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

K. Jüng

TÜV Rheinland Cert GmbH
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