



CHROMASCIENCE

SOLID PHASE EXTRACTION

SPE device and chromatographic consumables, are widely used in food safety, textile/leather inspection, environmental protection and clinical diagnosis, etc

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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.

Brands

biocomma®

Frits and empty columns for laboratory solid-liquid separation.

Copure®

Verified SPE cartridges and QuEChERS kits for sample preparation.

Embed™

Oligo synthesis products powered by our CPG-PE sintered technology.

CommaXP™

Columns and kits for purification of nucleic acids, proteins and antibodies.

H2OStop®

Self-sealing filters for medical usage.

4Tip™

Sintered PE filters for pipette tips.

SpinFlow™

Parts for spin column-based nucleic acid purification.

Silibase®

SPE cartridges specially optimized for large amount usage in third-party organizations.

CommaTip™

Instruments and kits for IVD nucleic acid purification.

CommaVac™

Vacuum manifolds for laboratory sample preparation.



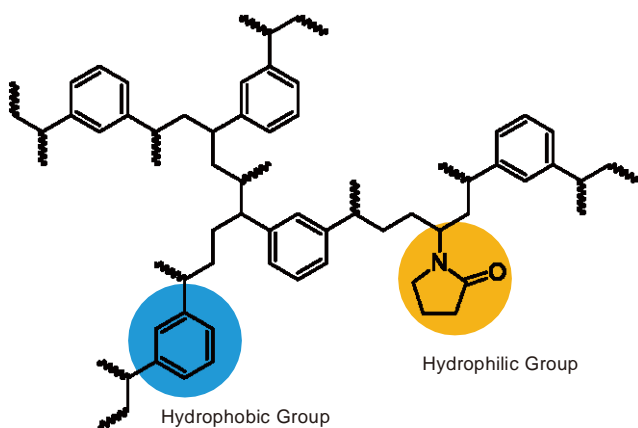
Building Your Brand

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



HLB Hydrophilic-Lipophilic Balanced

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

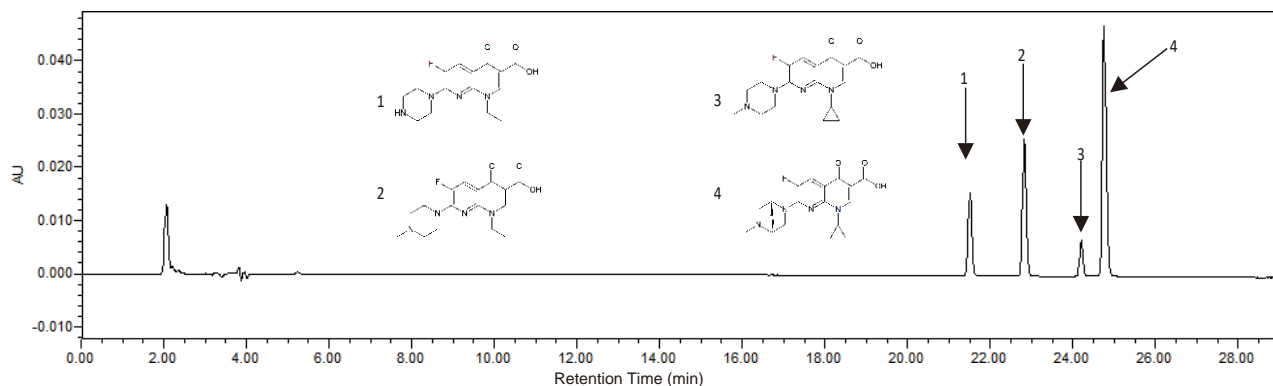
Applications

- 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
- GB5009.111-2016 Determination of Deoxynivalenol and its acetylated derivatives in food

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 μ L
 Detector: UV at 220 nm

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

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

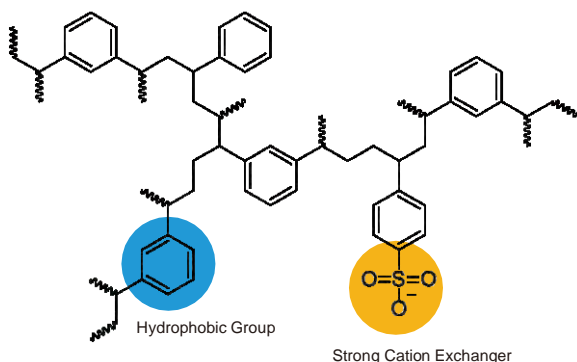
The results suggest that recoveries of > 80% are obtained by using Biocomma HLB cartridges to extract the four Quinolones in foods, meeting the criteria of China official method GB/T 21312-2007.

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

Extracting basic compounds



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

Specifications

Surface area: 600 m²/g
Particle size: 40 µm
Pore size: 300 Å

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

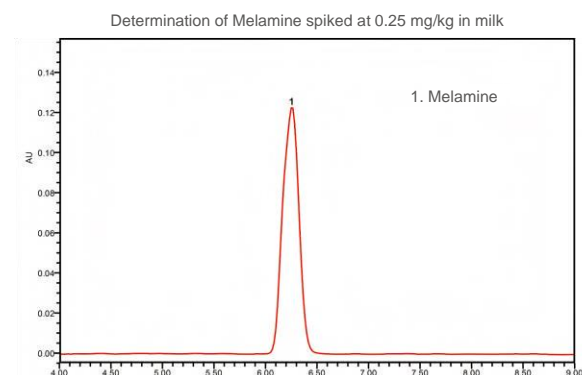
Applications

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

Related Methods

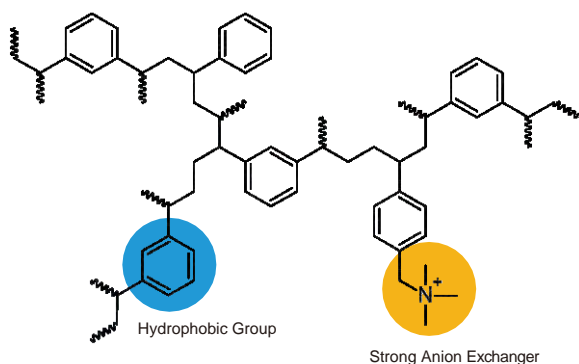
- GB/T 22388-2008 Determination of melamine in raw milk and dairy products
- GB 29694-2013 National Food Safety Standard - Determination of Residual 13 Types of Sulfonamides in Animal Food - High Performance Liquid Chromatography
- GB/T 22286-2008 Determination of beta-Agonists residues in foodstuff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

Application



MAX Mixed-mode Anion Exchange

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

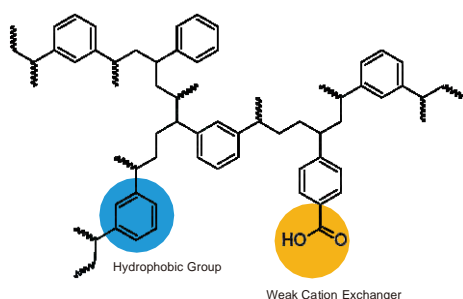
- GB/T 20746-2006 Method for the determination of the residues of carbadox olaquinox and related metabolites in bovine and porcine liver and muscle tissues - LC-MS-MS method
- GB/T 22992-2008 Determination of virginiamycin residue in bovine milk and milk powder - LC-MS-MS method
- GB/T 5009.96-2016 Determination of Ochratoxin A in foodstuff
- GB/T 5009.185-2016 Determination of Patulin A in foodstuff

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

Extracting strong bases



WCX sorbent is composed of monodisperse microporous polystyrene-divinylbenzene resin particles grafted with carboxylic acid 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.

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

SpecificationsSurface area: 600 m²/g

Particle size: 40 µm

Pore size: 300 Å

Applications

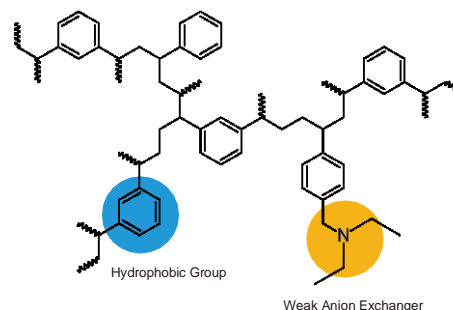
- Analysis of strong basic drugs in biological matrices
- New drug discovery

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

Extracting strong acids



WAX sorbent is composed of monodisperse microporous polystyrene-divinylbenzene resin particles grafted with amine functional groups. This polymeric mixed-mode sorbent features reversed-phase and weak anion exchange retention mechanisms, allowing for superb retention for strong acids.

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

SpecificationsSurface area: 600 m²/g

Particle size: 40 µm

Pore size: 300 Å

Applications

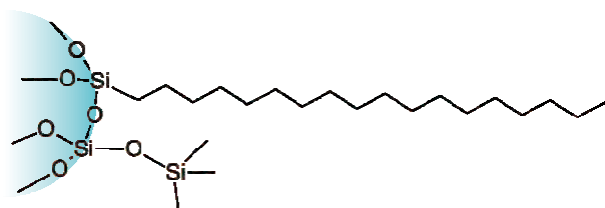
- Analysis of strong acids drugs in biological matrices
- Determination of strong acidic pollutants such as perfluorinated carboxylic acids in environment and water
- New drug discovery

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

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: 40-75 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

Related Methods

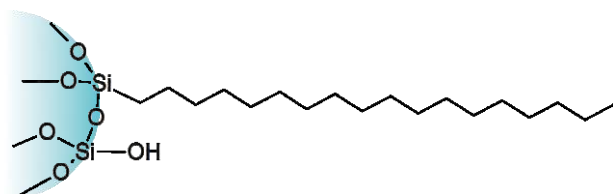
- GB/T 29598-2013 Limit and determination of triazines in fluorescent brighteners
- GB/T 21323-2007 Determination of aminoglycosides residues in animal tissues—HPLC-MS/MS method
- NY/T 1616-2008 Determination of 9 sulfonylurea herbicides residues in soils by LC-MS

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

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

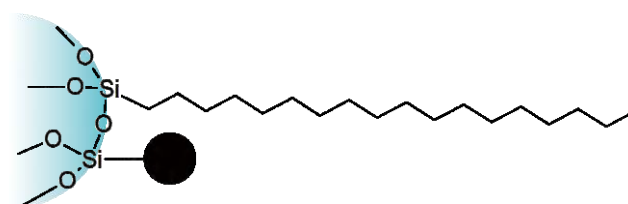
- Determination of organic pollutants such as polycyclic aromatic hydrocarbons (PAHs) in soils
- Determination of pesticides and veterinary drugs such as antibiotics in foods
- Analysis of pigments and saccharides in food
- Desalting of aqueous solutions before ion exchange

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

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.

- Compatible with aqueous solutions
- Additional retention for polar compounds

Specifications

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

Applications

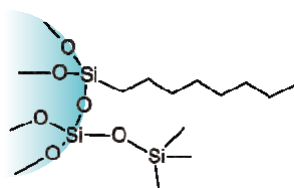
- Desalting of biological macromolecules such as nucleic acids, proteins and peptides.
- Determination of drugs, pesticides and organic pollutants in water, such as polycyclic aromatic hydrocarbons (PAHs)

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

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 which are strongly retained by C18

Specifications

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

Applications

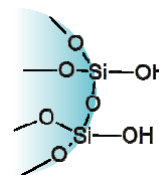
- Extraction of hydrophilic and lipophilic vitamins in plasma
- Determination of residual hormones in meat
- Determination of residual pesticides in waste
- Desalting of biological macromolecules

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

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

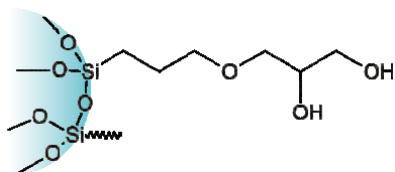
- Analysis of drugs, poisons, pollutants and their metabolites in biological matrices
- Separation of biomolecules such lipids, antibiotics, bile acids and saccharides
- Determination of mycotoxins such as fumonisins in foods
- Determination of preservatives in cosmetics and skin care products

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

Diol Dihydroxy

Used in normal or reversed phase, extracting polar compounds



Diol is a dihydroxy bonded silica sorbent similar to unbonded 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.

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

Specifications

Carbon content: 5.5% Surface area: 480 m²/g

Surface area: 480 m²/g

Particle size: 40 - 75 µm

Pore size: 70 Å

Applications

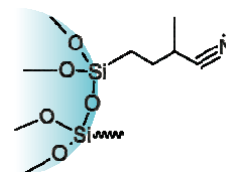
- Analysis of phenols, pigments and phospholipids in plant oils
- Determination of drugs and their metabolites in biological fluids such as urine
- Separation of glycan mixtures

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

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.

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

Specifications

Carbon content: 5.8%

Particle size: 40 - 75 µm

Pore size: 70 Å

Applications

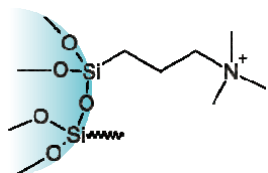
- Analysis of drugs and drug metabolites (such as steroids) in biological fluids
- Determination of residual pesticides / veterinary drugs in food and milk

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

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: 480 m²/g
Particle size: 40 - 75 µm
Pore size: 70 Å

Applications

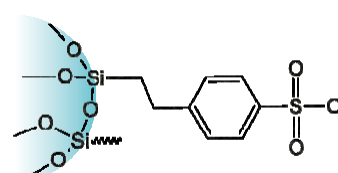
- Removal of negatively charged substances such as organic acids, nucleotides, sulfonic acids and inorganic anions from samples
- Determination of hormones in meat
- Determination of sulfonylurea herbicides in soil, vegetables and cereals

Order Information

Cat.#	Format	Qty.
COSAX1100	100mg/1mL	100/Box
COSAX3200	200mg/3mL	50/Box
COSAX3500	500mg/3mL	50/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

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: 480 m²/g
Particle size: 40 - 75 µm
Pore size: 70 Å

Applications

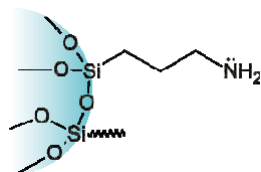
- Determination of residual pesticides / veterinary drugs in foodstuff, such as macrolides
- Determination of illicit drugs, such as amphetamine
- Analysis of drugs and drug metabolites in biological matrices

Order Information

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

NH₂ Aminopropyl

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: 480 m²/g
Particle size: 40 - 75 µm Surface area: 480 m²/g
Pore size: 70 Å

Applications

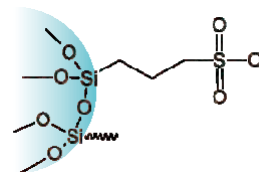
- Removal of negatively charged species such as sulfuric acids
- Determination of drugs and their metabolites such as β₂-adrenergic agonists and salicylic acid in biological fluids (blood and urine) green gentian violet, tetrodotoxin and methylene blue
- Determination of macrolide residues in foods and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

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

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%
Particle size: 40 - 75 µm
Pore size: 70 Å

Applications

- Determination of drugs and their metabolites in biological fluids
- Determination of basic pollutants such as malachite green

Related Methods

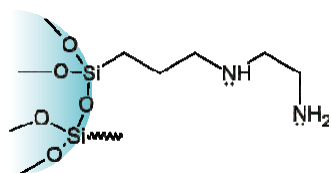
- NY/T 1756-2012 Determination of malachite green in feeds

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

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 acidic interferences in food samples

Specifications

Carbon content: 8% Surface area: 480 m^2/g
Particle size: 50 - 75 μm
Pore size: 70 Å

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

GCB Graphitized Carbon Black

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 m^2/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 DrinkingWater 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

Florisil Pesticide Grade Florisil

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

Specifications

Particle size: 150-250 µm

Applications

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

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
- GB 5009.265-2016 Determination for PAHs 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

Extracting aromatic amines

Alumina is an extremely polar sorbent, like silica. Its abundance of surface electrons induce π - π 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 ^{COALB6500}
- 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

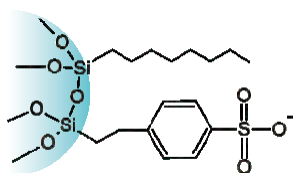
Cat.#	Format	Qty.
COALN1100	100mg/1mL	100/Box
COALN3200	200mg/3mL	50/Box
COALN3500	500mg/3mL	50/Box
COALN6500	500mg/6mL	30/Box
COALN61000	1000mg/6mL	30/Box
COALN121000	1000mg/12mL	20/Box
COALN122000	2000mg/12mL	20/Box

ALB – Basic Alumina

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

C8/SCX Octyl/Strong Cation Exchange

Extracting basic drugs in biological fluids



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

Specifications

Surface area: 480 m²/g

Particle size: 40 - 75 μm Surface area: 480 m²/g

Pore size: 70 Å

Applications

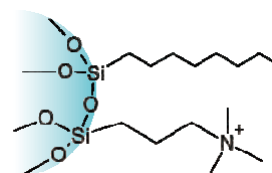
- Determination of drugs and their metabolites in biological fluids
- Determination of drugs of abuse such as cocaine, acetylcodeine, morphine and ketamine

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

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

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/NH₂ Graphitized Carbon Black/Aminopropyl Bilayer

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 m²/g
Particle size: 100-300 mesh

Specifications for NH₂

Carbon content: 4.5%
Surface area: 480 m²/g
Particle size: 40-75 µm
Pore size: 70 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

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 m²/g
Particle size: 100-300 mesh

Specifications for PSA

Carbon content: 8%
Surface area: 480 m²/g
Particle size: 50 - 75 µm
Pore size: 70 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

C18N300 Large Pore Size Unendcapped Octadecyl

Extracting polar and non-polar compounds, especially suitable for biological macromolecular desalting.

C18N300, its sorbents is octadecyl bonded silica gel, retains nonpolar compounds through hydrophobic action, the pore size up to 300Å, especially suitable for biological macromolecular (nucleic acid, protein and polypeptide) desalting.

Specifications

Carbon content: 5%
Surface area: 85 m²/g
Particle size: 40-75 µm
Pore size: 300 Å

PH Phenyl

PH Phenyl is extracting polar compounds, especially suitable for retaining planar structure or conjugated organic molecules.

PH, its sorbents is Phenyl bonded silica gel, compared with alkyl bonded phases (e.g. C18), it has different selectivity for target compounds. Similar to the polarity of C8, PH is suitable for retaining conjugated or aromatic ring compounds.

Specifications

Carbon content: 8.8%
Surface area: 300 m²/g
Particle size: 40-75 µm
Pore size: 100 Å

PBA Phenyl Boric Acid

PBA Phenyl Boric Acid is extracting polar compounds, especially suitable for retaining Planar structure or conjugated organic molecules.

PBA, its sorbents is Phenyl boric acid bonded silica gel, retains analytes through reversible covalent bonds, shows the strong affinity for compounds containing cis-glycol structures, such as ribavirin, catechins, nucleic acids, some proteins, carbohydrates, etc.

Specifications

Carbon Content: 4.5%
Surface Area: 480 m²/g
Particle Size: 40-75 µm
Pore Size: 70 Å

Related Methods

DB 32/T 1165-2007 Determination of total residues of ribavirin and its metabolites in chicken liver by LC-MS
SN/T 4519-2016 Determination of ribavirin residues in food of export animal origin by LC-MS/MS

Note: For special purpose SPE cartridges, please contact us.

Rimless SPE Cartridges

High-Throughput, Save More Space

Copure® Rimless SPE Cartridges, with its high density permutation, match with CommaVac™ Vacuum manifolds, are suitable for high- throughput extraction.

Features

- Rimless polypropylene tube, with higher density permutation
- Cartridge Volumn: 1 mL, 3 mL, 6 mL, 12 mL
High Purity Frits, suitable for high sensitive analysis.
- Provide new generation polymer, classic silica-based and absorption sorbents.
- Matched with CommaVac™ Vacuum manifold, suitable for high-throughput extraction



Polymer-based Rimless SPE Cartridge

Order Information

Sorbents	Cat.#					
HLB	RLHLB130	RLHLB360	RLHLB3200	RLHLB6150	RLHLB6500	RLHLB121000
MCX	RLMCX130	RLMCX360	RLMCX3200	RLMCX6150	RLMCX6500	RLMCX121000
MAX	RLMAX130	RLMAX360	RLMAX3200	RLMAX6150	RLMAX6500	RLMAX121000
WCX	RLWCX130	RLWCX360	RLWCX3200	RLWCX6150	RLWCX6500	RLWCX121000
WAX	RLWAX130	RLWAX360	RLWAX3200	RLWAX6150	RLWAX6500	RLWAX121000

Silica-based Rimless SPE

Order Information

Sorbents	Cat.#					
	100mg/1mL	200mg/3mL	500mg/3mL	500mg/6mL	1000mg/6mL	1000mg/12mL
C18	RLC181100	RLC183200	RLC183500	RLC186500	RLC1861000	RLC18121000
C8	RLC81100	RLC83200	RLC83500	RLC86500	RLC861000	RLC8121000
Silica	RLSIL1100	RLSIL3200	RLSIL3500	RLSIL6500	RLSIL61000	RLSIL121000
Diol	RLDI1100	RLDI3200	RLDI3500	RLDI6500	RLDI61000	RLDI121000
CN	RLCN1100	RLCN3200	RLCN3500	RLCN6500	RLCN61000	RLCN121000
Carb-GCB	RLGCB1100	RLGCB3200	RLGCB3500	RLGCB6500	RLGCB61000	RLGCB121000
Florisil	RLFL1100	RLFL3200	RLFL3500	RLFL6500	RLFL61000	RLFL121000
ALA	RLALA1100	RLALA3200	RLALA3500	RLALA6500	RLALA61000	RLALA121000
ALN	RLALN1100	RLALN3200	RLALN3500	RLALN6500	RLALN61000	RLALN121000
ALB	RLALB1100	RLALB3200	RLALB3500	RLALB6500	RLALB61000	RLALB121000
SCX	RLSCX1100	RLSCX3200	RLSCX3500	RLSCX6500	RLSCX61000	RLSCX121000
SAX	RLSAX1100	RLSAX3200	RLSAX3500	RLSAX6500	RLSAX61000	RLSAX121000
NH2	RLNH1100	RLNH3200	RLNH3500	RLNH6500	RLNH61000	RLNH121000
PSA	RLPSA1100	RLPSA3200	RLPSA3500	RLPSA6500	RLPSA61000	RLPSA121000
PRS	RLPRS1100	RLPRS3200	RLPRS3500	RLPRS6500	RLPRS61000	RLPRS121000

96-Well Solid Phase Extraction Plates

Specially for High-Throughput Applications

Copure® 96-well SPE Plates, based on Biocomma core accessories and SPE sorbents, and matched with CommaVac™ Vacuum manifold, are specially designed for high-throughput SPE applications.

Features

- ◆ Match with CommaVac™ Vacuum manifold, implement the high-throughput extraction.
- ◆ Provide new generation polymer and classic silica-based and absorption sorbents.
- ◆ Standard 96-well plates with 2 ml volume /well
- ◆ Use high purity frits to fix sorbents, suitable for high sensitive analysis without any impurities.



Polymer-based SPE 96-well Plates

Order Information

Sorbents	Cat.#		
	10mg/2mL/well	30mg/ 2mL/well	50mg /2mL/well
HLB	COHLB9610	COHLB9630	COHLB9650
MCX	COMCX9610	COMCX9630	COMCX9650
MAX	COMAX9610	COMAX9630	COMAX9650
WCX	COWCX9610	COWCX9630	COWCX9650
WAX	COWAX9610	COWAX9630	COWAX9650

Silica-based SPE 96-well Plates

Order Information

Sorbents	Cat.#		
	50mg/2mL/well	100mg/ 2mL/well	200mg /2mL/well
C18	COC189650	COC1896100	COC1896200
C8	COC89650	COC896100	COC896200
Silica	COSIL9650	COSIL96100	COSIL96200
Diol	CODI9650	CODI96100	CODI96200
CN	COCN9650	COCN96100	COCN96200
Carb-GCB	COGCB9650	COGCB96100	COGCB96200
Florisil	COFL9650	COFL96100	COFL96200
ALA	COALA9650	COALA96100	COALA96200
ALN	COALN9650	COALN96100	COALN96200
ALB	COALB9650	COALB96100	COALB96200
SCX	COSCX9650	COSCX96100	COSCX96200
SAX	COSAX9650	COSAX96100	COSAX96200
NH2	CONH9650	CONH96100	CONH96200
PSA	COPSA9650	COPSA96100	COPSA96200
PRS	COPRS9650	COPRS96100	COPRS96200

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 errors
- ◆ Minimal organic solvent usage, safer for analysts and environment-friendly
- ◆ Saving time and cost significantly

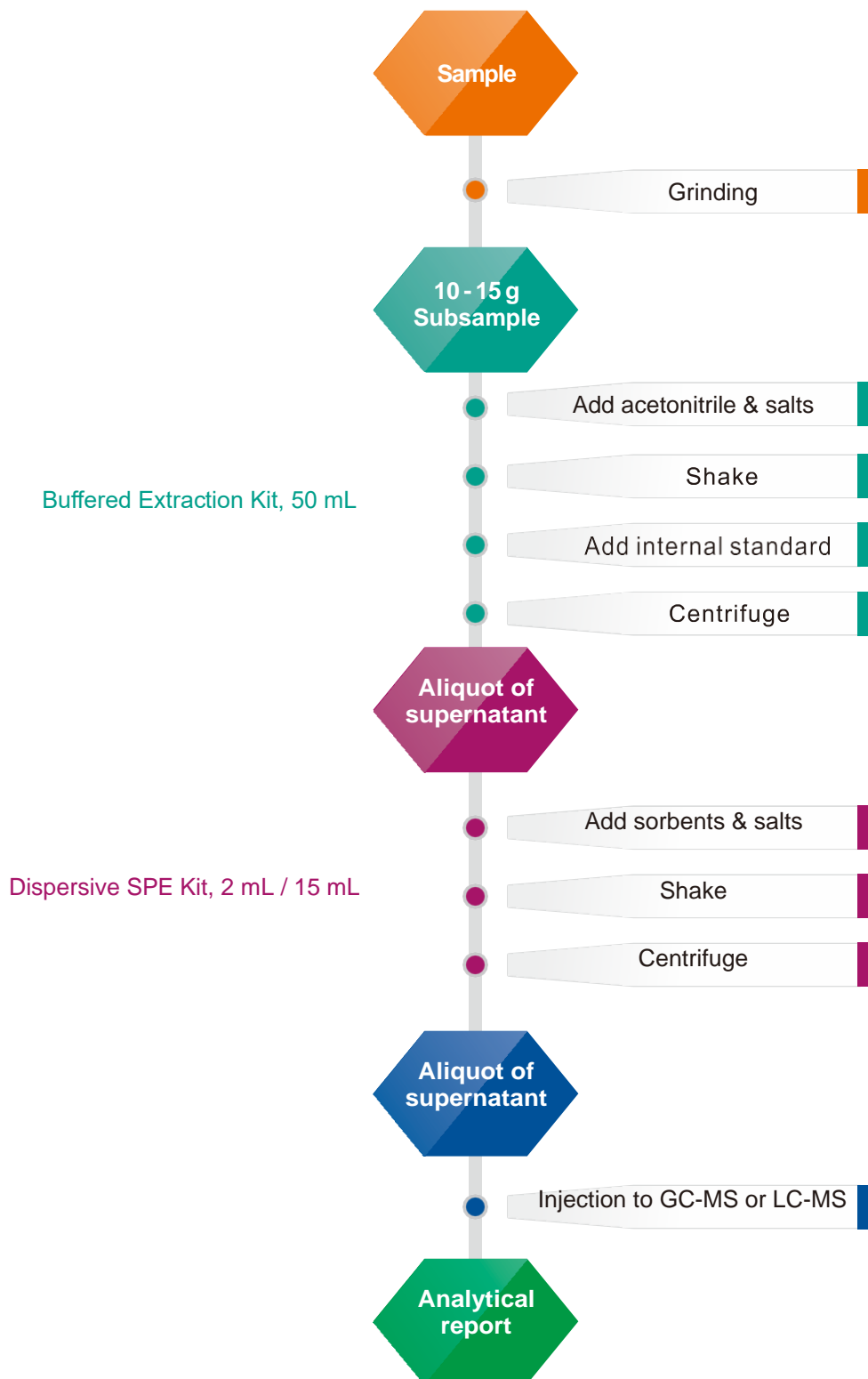
Related Methods

Biocomma provides QuEChERS kits dedicated for most common methods:

- ◆ **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 Kits includes extraction pouches and 50 mL centrifuge tubes, ceramic homogenizers are optional.

The pouches contain anhydrous extraction salts. Among the mixture, MgSO_4 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.



Order Information

AOAC 2007.01 Kits

Cat.#	Description	Sorbents	Qty.
COQ050020H	Extraction Salts+50 mL Tube	6 g MgSO_4	50/Box
COQ050020CH	Extraction Salts+50 mL Tube+Ceramic Homogenizers	1.5 g NaOAc	50/Box

EN 15662 Kits

Cat.#	Description	Sorbents	Qty.
COQ050010H	Extraction Salts+50 mL Tube	4g MgSO_4 1g NaCl	50/Box
COQ050010CH	Extraction Salts+50 mL Tube+Ceramic Homogenizers	1g Trisodium Citrate 0.5g Disodium Citrate	50/Box

Original Method Kits

Cat.#	Description	Sorbents	Qty.
COQ050040H	Extraction Salts+50 mL Tube	4g MgSO_4	50/Box
COQ050040CH	Extraction Salts+50 mL Tube+Ceramic Homogenizers	1g NaCl	50/Box

Ceramic Homogenizers

Cat.#	Description	Qty.
009903B	Ceramic Homogenizers, 50 mL	100/Bottle

QuEChERS Premixed Extraction Salts

Copure® QuEChERS Premixed Extraction Salts are suitable for various QuEChERS Standards and used in analysis of multi-residual pesticides.

Features

- ◆ Optimized premixed formula, more flexible operation
- ◆ Two packages optional: easy-cut pouches and bottle package
- ◆ Suitable for AOAC 2007, EN15662 standards, etc



Order Information

AOAC 2007.01 Kits

Cat.#	Description	Sorbents	Qty.
COQP6150	Extraction Pouches	6 g MgSO ₄	50/Box
COQS6150	Bottled Premixed Extraction Salts	1.5 g NaOAc	1 kg/Bottle

EN 15662 Kits

Cat.#	Description	Sorbents	Qty.
COQP4115	Extraction Pouches	4g MgSO ₄ 1g NaCl	50/Box
COQS4115	Bottled Premixed Extraction Salts	1g Trisodium Citrate 0.5g Disodium Citrate	1 kg/Bottle

Original Method Kits

Cat.#	Description	Sorbents	Qty.
COQP4100	Extraction Pouches	4g MgSO ₄	50/Box
COQS4100	Bottled Premixed Extraction Salts	1g NaCl	1 kg/Bottle

Copure® QuEChERS Extraction Salts

Suitable for AOAC 2007, EN15662 standards

Convenient Operation and Low Cost



QuEChERS Clean-up Kits

Copure® QuEChERS Clean-up Kits includes 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.

Features

- ◆ Supply 2 mL or 15 mL purification tubes
- ◆ Suitable for AOAC 2007, EN15662 standards, etc



Order Information

EN 15662 Kits

Cat.#	Size	Application	Sorbents	Qty.
COQ002030H	2 mL	General fruits and vegetables	25 mg PSA 150 mg MgSO ₄	100/Box
COQ015022H	15 mL		150 mg PSA 900 mg MgSO ₄	50/Box
COQ002032H	2 mL	General fruits and vegetables with fats and waxes	25 mg PSA 25 mg C18 150 mg MgSO ₄	100/Box
COQ015032H	15 mL		150 mg PSA 150 mg C18 900 mg MgSO ₄	50/Box
COQ002020H	2 mL	General fruits and vegetables with pigments	25 mg PSA 2.5 mg GCB 150 mg MgSO ₄	100/Box
COQ015020H	15 mL		150 mg PSA 15 mg GCB 900 mg MgSO ₄	50/Box
COQ002024H	2 mL	General fruits and vegetables with Highly pigments	25 mg PSA 7.5 mg GCB 150 mg MgSO ₄	100/Box
COQ015024H	15 mL		150 mg PSA 45 mg GCB 900 mg MgSO ₄	50/Box

Ceramic Homogenizers

Cat.#	Description	Qty.
009902B	Ceramic Homogenizers, 15 mL	100/Bottle
009901B	Ceramic Homogenizers, 2 mL	200/Bottle

AOAC 2007.01 Kits

Cat.#	Size	Application	Sorbents	Qty.
COQ002031H	2 mL	General fruits and vegetables	50 mg PSA 150 mg MgSO ₄	100/Box
COQ015031H	15 mL		400 mg PSA 1200 mg MgSO ₄	50/Box
COQ002033H	2 mL	General fruits and vegetables with fats and waxes	50 mg PSA 50 mg C18 150 mg MgSO ₄	100/Box
COQ015033H	15 mL		400 mg PSA 400 mg C18 1200 mg MgSO ₄	50/Box
COQ002036H	2 mL	General fruits and vegetables with pigments	50 mg PSA 50 mg GCB 150 mg MgSO ₄	100/Box
COQ015036H	15 mL		400 mg PSA 400 mg GCB 1200 mg MgSO ₄	50/Box
COQ002040H	2 mL	General fruits and vegetables with pigments and fats	50 mg PSA 50 mg C18 50 mg GCB 150 mg MgSO ₄	100/Box
COQ015040H	15 mL		400 mg PSA 400 mg C18 400 mg GCB 1200 mg MgSO ₄	50/Box
COQ002025H	2 mL	Others food methods	25 mg C18 150 mg MgSO ₄	100/Box
COQ015025H	15 mL		150 mg C18 900 mg MgSO ₄	50/Box
COQ002035H	2 mL	All food types	50 mg PSA 50 mg C18 7.5 mg GCB 150 mg MgSO ₄	100/Box
COQ015035H	15 mL		400 mg PSA 400 mg C18 45 mg GCB 1200 mg MgSO ₄	50/Box



QuEChERS Clean-up Pouches

Copure® QuEChERS Clean-up Pouches are used to analyse of multiresidual pesticides. Biocomma uses its automatic powder distribution technology to transfer the sorbent into pouches instead of tube, which is very convenient to match with customer's own 15 mL centrifuge tubes.

Features

- ◆ Save 50% of volume, convenient for transportation, saving laboratory space
- ◆ Easy-Cut package to open easily without any cutting tooling
- ◆ Lower cost, suitable for mass quantity testing



Order Information

Cat.#	Type	Sorbents	Qty.
COQ015031P	AOAC 2007	400 mg PSA 1200 mg MgSO ₄	100/Box
COQ015033P	AOAC 2007	400 mg PSA 400 mg C18 1200 mg MgSO ₄	100/Box
COQ015036P	AOAC 2007	400 mg PSA 400 mg GCB 1200 mg MgSO ₄	100/Box
COQ015040P	AOAC 2007	400 mg PSA 400 mg C18 400 mg GCB 1200 mg MgSO ₄	100/Box
COQ015025P	AOAC 2007	150 mg C18 900 mg MgSO ₄	100/Box
COQ015035P	AOAC 2007	400mg PSA 400 mg C18 45 mg GCB 1200 mg MgSO ₄	100/Box
COQ015022P	EN 15662	150 mg PSA 900 mg MgSO ₄	100/Box
COQ015032P	EN 15662	150 mg PSA 150 mg C18 900 mg MgSO ₄	100/Box
COQ015020P	EN 15662	150 mg PSA 15 mg GCB 900 mg MgSO ₄	100/Box
COQ015024P	EN 15662	150 mg PSA 45 mg GCB 900 mg MgSO ₄	100/Box

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% Particle size : 50-75 µm Surface area : 500 m ² /g Pore size : 100 Å	100 g	PSA-2-100
C18	Carbon Content : 17.6% Particle size : 40-60 µm Surface area : 300 m ² /g 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

QuEChERS Ceramic Homogenizers

biocomma[®] Ceramic Homogenizers are used for Copure[®] QuEChERS extraction kit and clean-up kit, increase recovery and reproducibility.

Features

- ◆ Inert ceramic material, no impurities dissolution
- ◆ Shorten sample extraction time and reduce labor cost
- ◆ Increase recovery and reproducibility of sample extraction



Order Information

Cat.#	Description	Qty.
009903B	Ceramic Homogenizers, 50 mL	100/Bottle
009902B	Ceramic Homogenizers, 15 mL	100/Bottle
009901B	Ceramic Homogenizers, 2 mL	200/Bottle

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



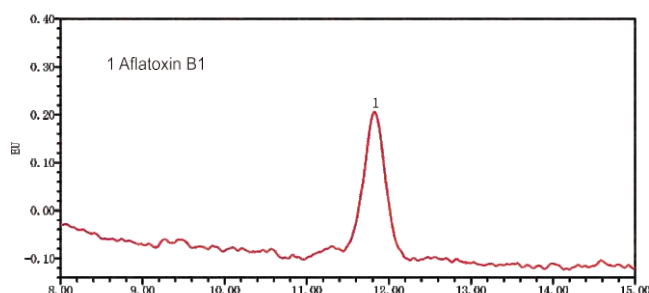
Aflatoxin Immunoaffinity Columns

Aflatoxin is a highly toxic substance, its harmfulness lies in the destructive effect on human and animal liver tissues. Aflatoxin Immunoaffinity Columns are based on the antigen-antibody specific reaction, binding the antibody to the gel to combine with aflatoxin specificity, thereby achieving the effect of separation and purification.



Application

Chromatogram of Aflatoxin B1 spiked at 0.5 ug/kg in rice

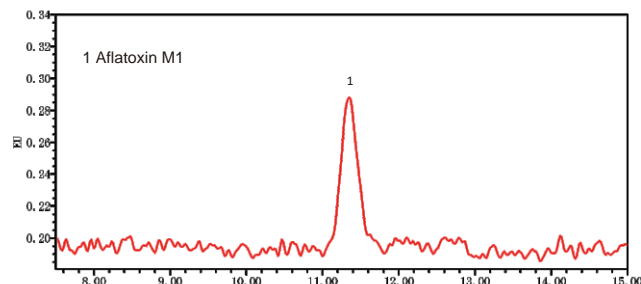


Related Methods

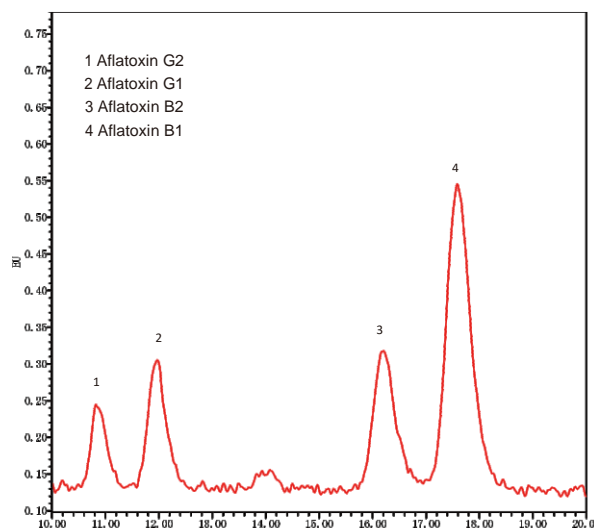
- ◆ GB 5009.22-2016 Determination of Aflatoxin B and G in food
- ◆ GB5009.24-2016 Determination of Aflatoxin M in food



Chromatogram of Aflatoxin M1 spiked at 1 ug/kg in milk



Chromatogram of Aflatoxin G1, G2, B1, B2 spiked at 0.25 ug/kg in rice



Order Information

Cat.#	Description	Qty.
COAFMT101	Aflatoxin B1,B2,G1,G2, 1mL	25/Box
COAFMT103	Aflatoxin B1,B2,G1,G2, 3mL	20/Box
COAFMB101	Aflatoxin B1, 1mL	25/Box
COAFMB103	Aflatoxin B1, 3mL	20/Box
COAFMM101	Aflatoxin M1, 1mL	25/Box
COAFMM103	Aflatoxin M1, 3mL	20/Box

Deoxynivalenol Immunoaffinity Columns

Deoxynivalenol is mainly distributed in wheat, barley, corn and other cereal seeds, and has a certain harmful effect on human body, it is three-level carcinogen in the EU classification standard. Deoxynivalenol Immunoaffinity Columns can selectively separate deoxynivalenol from the sample by the specific binding of antibody and antigen to achieve good purification effect.

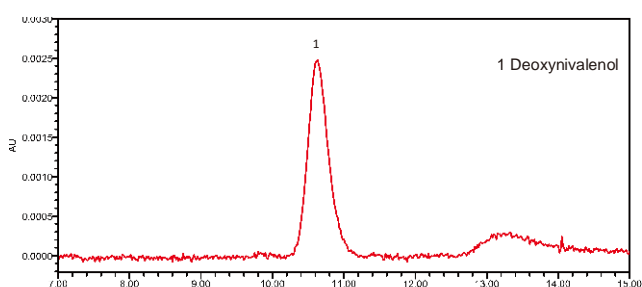


Related Methods

- ◆ GB5009.111-2016 Determination of Deoxynivalenol and its acetylated derivatives in food

Application

Chromatogram of Deoxynivalenol spiked at 1.0 mg/kg in soy sauce



Order Information

Cat.#	Description	Qty.
COAFDON101	Deoxynivalenol, 1mL	25/Box
COAFDON103	Deoxynivalenol, 3mL	20/Box

Ochratoxin A Immunoaffinity Columns

Ochratoxin A is very common in mildewed grain and feedstuffs. It comes from the aspergillus and penicillium on various crops (wheat, corn, barley, oats, rye, rice and millet), peanuts, vegetables (beans), etc., which cause enormous harm to the kidneys and livers of human and animal. Ochratoxin A Immunoaffinity Columns can selectively adsorb the Ochratoxin A from sample to purify ochratoxin A in the sample solution.

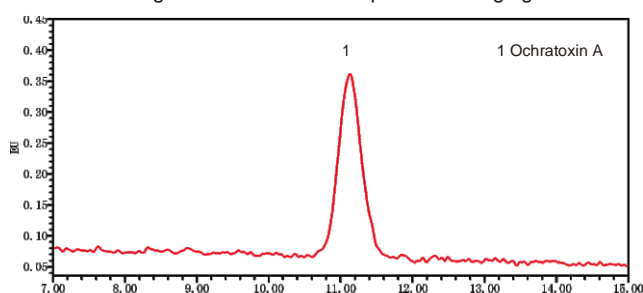


Related Methods

- ◆ GB5009.96-2016 Determination of Ochratoxin A in food

Application

Chromatogram of Ochratoxin A spiked at 25 ug/kg in rice



Order Information

Cat.#	Description	Qty.
COAFOCH101	Ochratoxin A, 1mL	25/Box
COAFOCH103	Ochratoxin A, 3mL	20/Box

Zearalenone Immunoaffinity Columns

Zearalenone is widely found in mildewed corn, sorghum, wheat, oats, barley, other cereal crops and milk, it is the most widely contaminated Fusarium toxin in the world. It has estrogenic effect and mainly act on reproductive system and enormous harm to human and animals due to the teratogenic effect. Zearalenone Immunoaffinity Columns can be used to extract and enrich zearalenone from samples which enable very targeted purification performance.

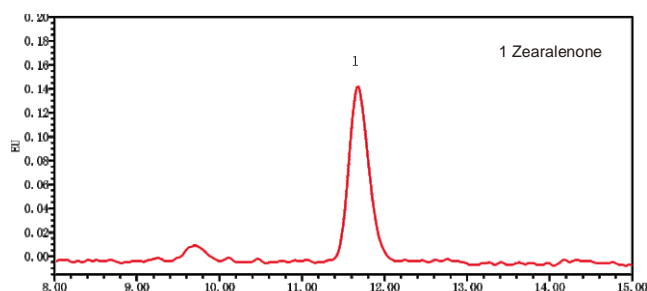


Related Methods

- ◆ GB 5009.209-2016 Determination of Zearalenone in food

Application

Chromatogram of Zearalenone spiked at 1 mg/kg in corn flour



Order Information

Cat.#	Description	Qty.
COAFZEA101	Zearalenone, 1mL	25/Box
COAFZEA103	Zearalenone, 3mL	20/Box

T-2 Toxin Immunoaffinity Columns

T-2 toxin is a mycotoxin produced by various Fusariums, mainly contaminates wheat, barley, corn and other food crops and their products, which has a greater hazard to human health and animal husbandry. T-2 Toxin Immunoaffinity Columns can selectively adsorb T-2 toxin in the sample solution to specifically purify T-2 toxin in the sample solution. The purified sample solution can be directly used for detection in liquid phase.

Related Methods

- ◆ GB 5009.118-2016 Determination of T-2 toxin in food



Order Information

Cat.#	Description	Qty.
COAFT2101	T-2 toxin, 1mL	25/Box
COAFT2103	T-2 toxin, 3mL	20/Box

Fumonisin FB Immunoaffinity Column

Fumonisin FB is a mycotoxin, which is a water-soluble metabolite produced by Fusarium moniliforme. It is a kind of diester compound composed by different polyhydric alcohols and glycerol tricarboxylic acid. Fumonisin has FA1, FA2, FB1, FB2, FB3 etc, FB1 is the main component.

Related Methods

- ◆ GB 5009.240-2016 Determination of Fumonisin FB in food.

Order Information

Cat.#	Description	Qty.
COAFB101	Fumonisin FB, 1mL	25/Box
COAFB103	Fumonisin FB, 3mL	20/Box

Multifunctional Clean-up Columns

Fast Cleanup with Low Cost

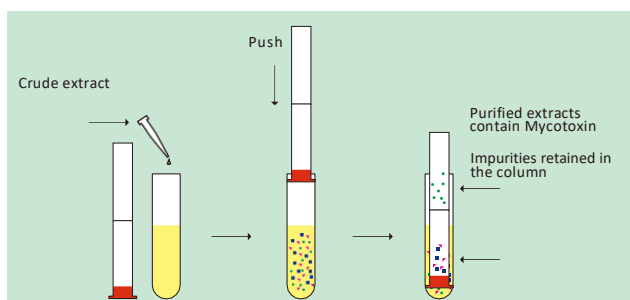
Biocomma Copure® Clean-up Columns are made of multiple absorption matrix, it can quickly and optionally absorb the impurities of lipids, proteins, pigments from sample. but not absorb the desired components and reach the quick purification purpose.

Product Advantages

- ◆ Process is quick, purification can be finished within 30 seconds
- ◆ Long validity to 24 month under ordinary temperature. High recovery $\geq 90\%$, $RSD \leq 5\%$

Operation Method

Extract the samples, add the extraction solution into test tube, insert the purification cartridge with rubber head into test tube, press it to the bottom of the test tube, the purified liquid flow through sorbent and reach to the top of the purification cartridge, pour out the liquid, then blowing and redissolving in a suitable solvent before test.



Order Information

Cat.#	Product	Application	Qty.
COAF228	Copure®228 Multifunctional Clean-up Columns	Patulin	25/Box
COAF226	Copure®226 Multifunctional Clean-up Columns	Aflatoxin B1,B2,G1,G2	25/Box
COAF224	Copure®224 Multifunctional Clean-up Columns	Zearalenone	25/Box
COAF223	Copure®223 Multifunctional Clean-up Columns	Aflatoxin M1,M2	25/Box
COAF230	Copure®230 Multifunctional Clean-up Columns	Deoxynivalenol	25/Box
COAF229	Copure®229 Multifunctional Clean-up Columns	Ochratoxin A	25/Box

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 dye compounds which under reductive conditions, are decomposed to form fatty or aromatic amines. Those 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.

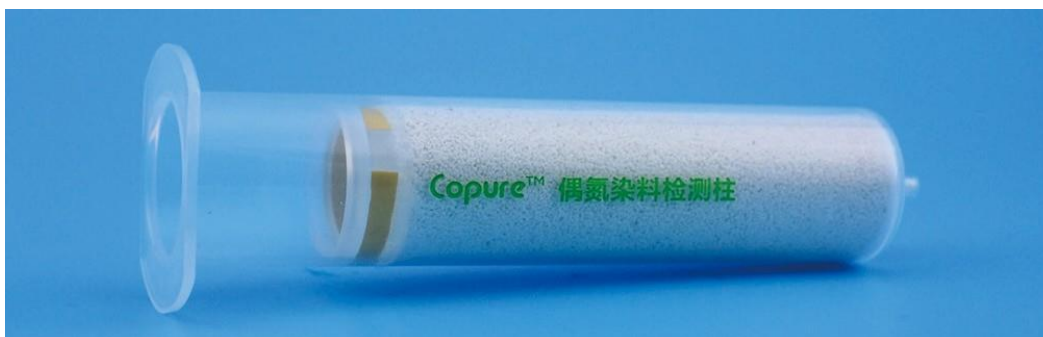
- Packed with dedicatedly optimized diatomaceous earth
- Frits with excellent flowrate control technology
- Complying with China and EU official methods
- Superb performance proven by China's most authoritative textile testing institute

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 14362-1:2017 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

SPE Cartridges for Pesticide Residue Testing in Tea

Copure® SPE Cartridges meet the standards 《GB/T 23204-2008 519 pesticides and related chemical pesticides residue determination in tea by GC-MS》 and 《GB/T 23205-2008 448 pesticides and related chemical pesticides residue determination in tea by LC-MS/MS》, having good performance for pigment, tea polyphenol, organic acid etc in tea.

Order Information

Cat.#	Format	Qty.
COTPT6	6 mL	30/Box
COTPT12	12 mL	20/Box

Cartridges for Ion chromatography pretreatment

In ion chromatography, organic, metal and other interfering ions may affect the analysis of target compounds. The pretreatment columns are based on the principle of reversed phase adsorption or ion exchange, can effectively remove interferences and ensure the accuracy of the results.

Order Information

Cat.#	Description	Format	Qty.
COICC1801	C18 cartridge	300mg	50/Box
COICRP01	RP cartridge	1mL	50/Box
COICH01	H cartridge	1mL	50/Box
COICAG01	Ag cartridge	1mL	50/Box
COICNA01	Na cartridge	1mL	50/Box
COICAGH01	Ag/H cartridge	1mL	50/Box
COICAGNA01	Ag/Na cartridge	1mL	50/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 firstly.

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.#	Format	Qty.
COCR3500	500mg/3mL	50/Box
COCR6500	500mg/6mL	30/Box
COCR121000	1000mg/12mL	20/Box

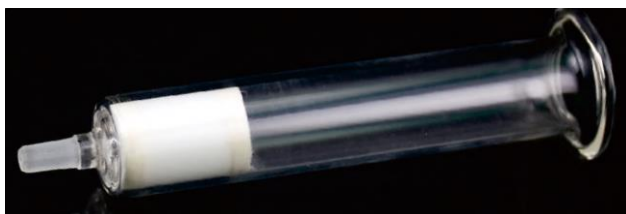
Cartridges for Plasticizer Testing

Determination of phthalate esters

Plasticizers currently used in plastic and packaging 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.#	Format	Qty.
COPAE655	500mg/500mg/6mL	30/Box

Polyamide(PA) SPE Cartridges

For Testing Artificial Color in Extraction Samples

PA is a macromolecule substance polymerized by Amide monomer(hexanolactam, adipamide, Oxalic acid), its amido linkage is easily to bring Hydrogen bond with other Polar bond groups, this enables to remove interferents such as artificial color from samples, this is used for testing artificial color.

PA SPE cartridges are filled with special optimized PA sorbent which enables its good decoloring and high recovery.



Specifications

Particle Size: 100-200 mesh

Related Methods

- GB 5009.35-2016 Determination of synthetic colorants in foods
- EN ISO17075-2007 Leather-Chemical tests– Determination of chromium(VI) content

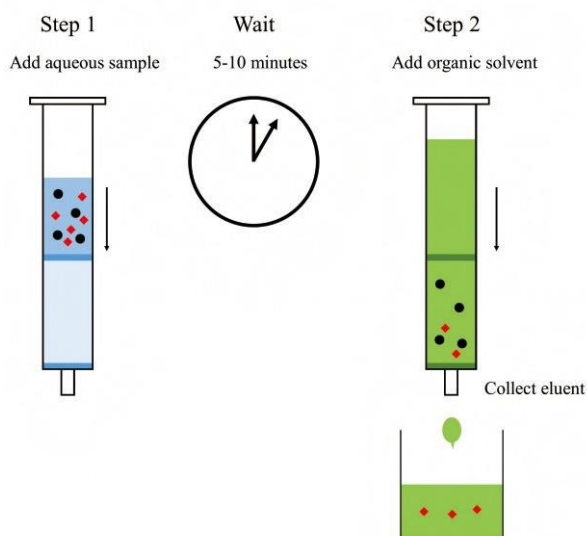
Order Information

Cat.#	Format	Qty.
COPACR36	500mg/3mL	50/Box
COPACR66	500mg/6mL	30/Box
COPACR61	1000mg/6mL	30/Box
COPACR122	2000mg/12mL	20/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.



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 extraction. Because the mass transfer occurs in extreme short paths, analytes can partition very efficiently between the two phases.

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.

High recoveries, more reproducible

Simplified protocols, less time-consuming

No need to vigorous shaking, no emulsion formation

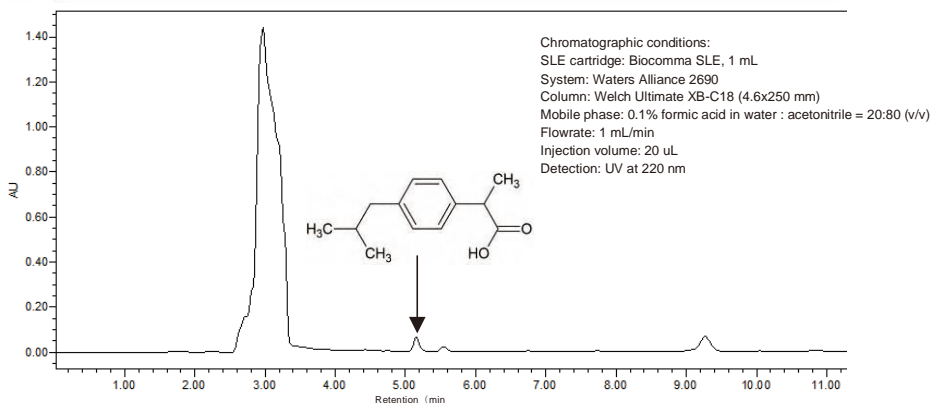
Using less amount of organic solvents, reducing cost and environmental friendly

Easy to automation and parallel manipulation

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

Example: extracting ibuprofen in human serum using Biocomma SLE



Autosampler Vials

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



8-425 Screw-thread vials

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



9-425 Screw-thread vials

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



10-425 Screw-thread vials

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



11mm Snap-top vials

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



11mm Crimp-top vials

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



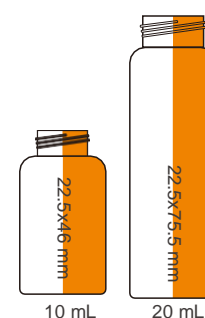
Crimp-top headspace vials

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



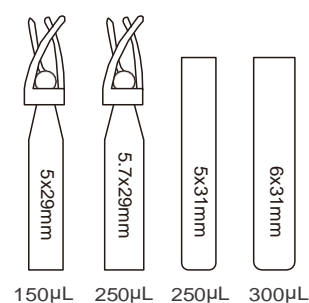
Storage Vials

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



Micro-inserts

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



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

■ ■ ■ 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

■ ■ ■ 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

■ ■ ■ PES Microfiltration Membrane

Cat.#	Description	Qty.
MF047-22-PES	PES / Φ47mm / 0.22μm	200/Box
MF047-45-PES	PES / Φ47mm / 0.45μm	200/Box
MF090-22-PES	PES / Φ90mm / 0.22μm	100/Box
MF090-45-PES	PES / Φ90mm / 0.45μm	100/Box

■ ■ ■ 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

■ ■ ■ CA Microfiltration Membrane

Cat.#	Description	Qty.
MF047-22-CA	CA / Φ47mm / 0.22μm	200/Box
MF047-45-CA	CA / Φ47mm / 0.45μm	200/Box
MF090-22-CA	CA / Φ90mm / 0.22μm	100/Box
MF090-45-CA	CA / Φ90mm / 0.45μm	100/Box

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

Syringe Filters

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



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

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

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

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

Syringe Filters

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

Hydrophilic PTFE Syringe Filters

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

Hydrophilic PVDF Syringe Filters

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

Note: For sterilized syringe filters, please contact us.

Empty SPE Cartridge Kits

biocomma® empty solid phase extraction cartridge kits include empty medical grade PP tubes, porous PE frits and push rods for customers to pack their own sorbents easily and handily.

Order Information

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



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.

Features

- ◆ Straight walled syringe barreltubes, 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 1mL to 300mL



Order Information

Cat. #	Description	Qty.
004101	1mL Empty SPE Cartridges	500/Box
004102	3mL Empty SPE Cartridges	100/Box
004103	6mL Empty SPE Cartridges	100/Box
004114	12mL Empty SPE Cartridges	100/Box
004112	20mL Empty SPE Cartridges	50/Box
004105	30mL Empty SPE Cartridges	50/Box
004106	60mL Empty SPE Cartridges	50/Box
004113	300mL Empty SPE Cartridges	10/Box
004151	6mL Empty SPE Cartridges, Glass Tubes, PTFE Frits	12/Box
004152	12mL Empty SPE Cartridges, Glass Tubes, PTFE Frits	8/Box
004301	1mL 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 with a certain pore opening, as indispensable parts of SPE cartridges.

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

Features

- ◆ Frits are made from high-quality UHMW-PE, suitable for ultra-sensitive analysis
- ◆ Optimized uniform flowrate design is in favor of parallel SPE processing
- ◆ Ultrapure 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	Thickness	Used For	Qty.
SPEF058-16-20	5.8mm	1.6mm	1mL SPE Tubes	1,000/Box
SPEF090-25-20	9.0mm	2.5mm	3mL SPE Tubes	1,000/Box
SPEF091-25-20	9.1mm	2.5mm	3mL SPE Tubes	1,000/Box
SPEF130-12-20	13.0mm	1.2mm	6mL SPE Tubes	1,000/Box
SPEF130-16-20	13.0mm	1.6mm	6mL SPE Tubes	1,000/Box
SPEF130-25-20	13.0mm	2.5mm	6mL SPE Tubes	1,000/Box
SPEF158-25-20	15.8mm	2.5mm	12mL SPE Tubes	1,000/Box
SPEF197-25-20	19.7mm	2.5mm	20mL SPE Tubes	1,000/Box
SPEF236-25-20	23.6mm	2.5mm	30mL SPE Tubes	1,000/Box
SPEF266-25-20	26.6mm	2.5mm	60mL SPE Tubes	1,000/Box
SPEF495-25-20	49.5mm	2.5mm	300mL SPE Tubes	100/Box
SPEF066-16-20	6.0mm	1.6mm	1mL 96-Well Plates	1,000/Box
SPEF070-16-20	7.0mm	1.6mm	1.5mL 96-Well Plates	1,000/Box
SPEF083-16-20	8.3mm	1.6mm	1.5mL 96-Well Plates	1,000/Box

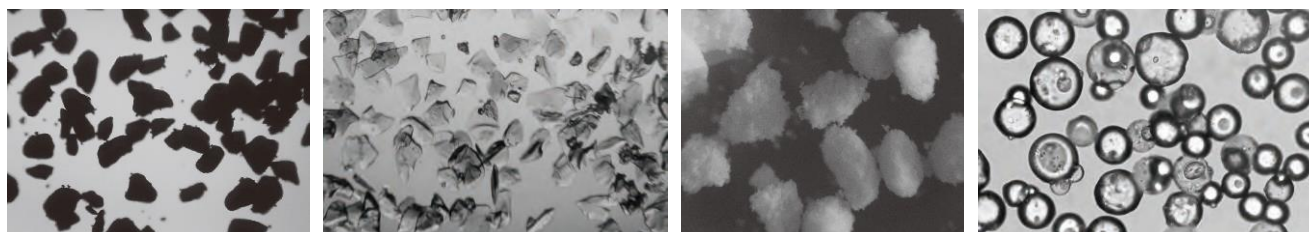
Bulk Sorbents

Suitable for SPE and QuEChERS

Copure® Bulk SPE sorbents are used for packing your own SPE Cartridges or QuEChERS kits.

Order Information

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



SPE Vacuum Manifolds

biocomma® SPE Vacuum Manifolds are able to handle with multiple samples at the same time. The precise, individual pressure control enables easy conditioning, sample loading, washing and elution steps of solid phase extraction.

Vacuum pressure and special flow design ensure uniform pressure and stable flow rate

One-piece glass basin, higher corrosion resistance

Individually controllable screw-type valves can prevent cross-contamination when processing different samples simultaneously



Order Information

Cat. #	Description	Qty.
SPEMF12G	12 Port SPE Vacuum Manifold	1set/Box
SPEMF24G	24 Port SPE Vacuum Manifold	1set/Box

Connectors

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

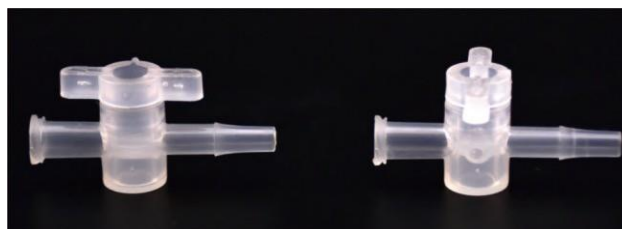


Order Information

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

Flow Regulators

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



Order Information

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

biocomma® Multi-Tube Vortexer

Your QuEChERS Helper

biocomma® BC-1000 is a multi-tube vortexer with various functions and powerful shaking of sample, especially suitable for QuEChERS, as well as general sample extraction. With strong vortex and shearing force, it boosts sample dissolution and blending.

2500 r/min Sufficient extraction of samples.

Optional intermittent pulse blending mode, suitable for viscous samples.

Specially designed for QuEChERS extraction and purification, ensures vortex result.

Matching special centrifuge tube rack, easy observation.

The extraction efficiency of positive samples meets the requirements.



Specifications

Parameter	Part No.	BC-1000
Speed Range		500 ~ 2500 rpm
Accuracy of speed		±1 rpm
Amplitude		3.6 mm
Timer Range		0s ~ 99 H 59 M
Interval pause timing range		1 ~ 99 S
Interval operation timing range		1 ~ 999 S
Maximum Loading Capacity		4.5 kg
Input power		AC 100 ~ 230 V, 50/60 Hz
Capacity		75 W
Size (L x W x H)		426x246x474 mm

Order Information

Cat. #	Description	Qty.
BC-1000	biocomma® multi-tube vortexer	1set/Box

Oil-free Diaphragm Vacuum Pumps

biocomma® oil-free diaphragm vacuum pumps are designed to work with biocomma® SPE vacuum manifolds. Utilizing diaphragm vacuum technology without oil, these pumps eliminate contamination of media that occurs in rotary vane pumps.

Easy to use design Oil-free, no contamination

Lightweight, small footprint

Resistant to erosion, resistant to acidic/basic reagents



Order Information

Cat. #	Description	Qty.
SPFMFP01	Hand-Held Oil-Free Diaphragm Vacuum Pumps, Ultimate Vacuum 0.08 MPa, Power 55 W	1set/Box
SPFMFP02	Adjustable Oil-Free Diaphragm Vacuum Pumps, Vacuum Range 0.01-0.085 MPa, Power 90 W, with Waste Reservoir	1set/Box

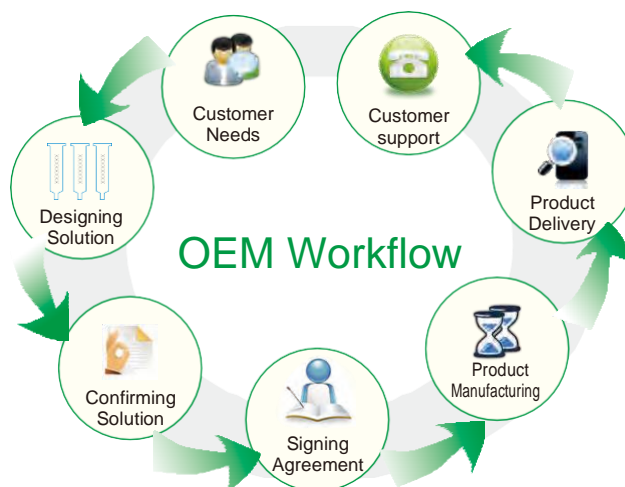
OEM/ODM

From product development to customer support, Biocomma helps you to 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.





CHROMASCIENCE CHEMISTRY

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