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Solid Phase Extraction Product Catalog

Trusted Partner and innovation leader in Chromatography



Your Resource



Your Analytic



Your Tool



In the past 3 decades, solid phase extraction (SPE) has emerged and been developed into an effective separation and purification method, and has been used in many fields such as drug purification, fine chemical preparation, food analysis, environmental analysis, and life sciences. In order to meet the needs of the above-mentioned fields, ChromoSep has developed SPE Families to under the excellent technology of foreign companies. With more than 20 SPE series, it includes extraction mechanisms such as reverse phase, normal phase, ion exchange and hybrid, which can meet the needs of analysts in the separation and purification process.

CleanX SPE Product Brief

(1) Silica gel C18, C8, CN, NH2, PSA, SAX, SCX, Silica.

The most commonly used fillers in SPE are silica gel or bonded silica (bonding different functional groups on silanol groups on the surface of the silica gel) Its pH range is 2.0~8.0. There are many kinds of silica-based phases, which has the advantage of multiple selectivities.

(2) Polymer HLB, MAX, MCX, WAX, WCX;

The high molecular polymer is a polymer material obtained by copolymerization of pyrrolidone and divinylbenzene. Due to the the polar functional group of pyrrolidone, it has a balanced adsorption effect on various polar and non-polar compounds. Compared with the C18 column, it has

the following advantages:

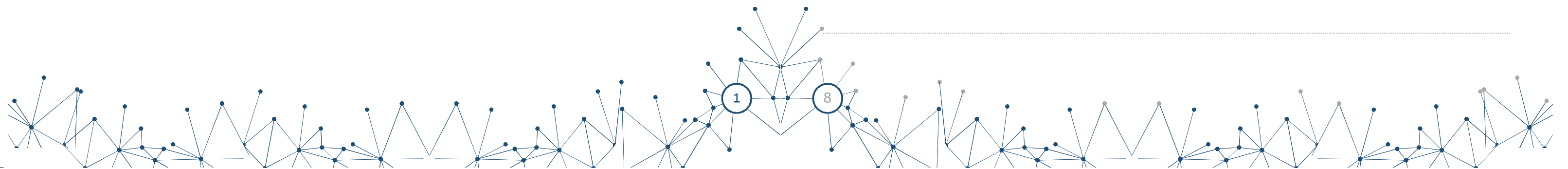
- > Can be used at pH 0-12 without strict control of the activation process, and the column drying does not affect the use.
- > Simultaneous adsorption of compounds of different polarities.
- > Avoid low recovery rate caused by difficult elution resulting from Si-OH interaction for compound containing a basic group

(3) Adsorption Florisil (magnesium silicate), GCB (graphitized carbon), alumina (neutral, acidic, basic)

(4) Specialized column series, GCB/NH2 column, BAP (for benzopyrene), PAE (for plasticizer), TRF (for tea)

(5) QuEChERS method: CleanX QuEChERS series

CleanX QuEChERS series accomplish principle of dispersive solid-phase extraction to achieve rapid detection of pesticide residues and animal residues





96 Wellplate

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
C18	2ml	50	2/pk	CTW01-0502
HLB	2ml	30	2/pk	CTW02-0302
MCX	2ml	30	2/pk	CTW03-0302
PPT (protein precipitation)	1ml	N/A	2/pk	CTW05-0101
	2ml	N/A	2/pk	CTW05-0102
PPT (protein filtration)	1mL	N/A	2/pk	CTW06-0101
	2mL	N/A	2/pk	CTW06-0102

SPE manifold and spares

Ordering Information

Description	P/N
12 position SPE device	CTM02-0112
24 position SPE device	CTM02-0124
SPE column Adapter(1, 3, 6ml)	CTM03-0106

CleanX HLB

- > Functionalized hyper-crosslinked DVB-NV polymer
- > Bonding with hydrophilic and hydrophobic Chemical group.
- > Well-balanced adsorption for all kinds of polar, non-polar compounds

Application

The extraction of a wide range of acidic, neutral, and basic analytes from different matrices

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
HLB	1ml	30mg	100/pk	CTS01-0301
	1ml	60mg	100/pk	CTS01-0601
	3ml	60mg	50/pk	CTS01-0603
	6ml	150mg	30/pk	CTS01-1506
	6ml	200mg	30/pk	CTS01-2006
	6ml	500mg	30/pk	CTS01-5006

CleanX MCX

- > Polymeric strong cation exchange mixed mode sorbent
- > The wide range of pH (pH 0-14)
- > The dual retention for RP and ion-exchange modes.

Application

The excellent extraction and clean-up for basic analytes from Bio-fluids (plasma, urine, bile)

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
MCX	1ml	30mg	100/pk	CTS03-0301
	1ml	60mg	100/pk	CTS03-0601
	3ml	60mg	50/pk	CTS03-0603
	6ml	150mg	30/pk	CTS03-1506
	6ml	200mg	30/pk	CTS03-2006
	6ml	500mg	30/pk	CTS03-5006

CleanX MAX

- > Polymeric strong anion exchange and mixed mode
- > Polystyrene/divinylbenzene sorbent
- > The wide range of pH (pH 0-14)

Application

The excellent extraction and clean-up for acidic analytes from Bio-samples.

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
MAX	1ml	30mg	100/pk	CTS02-0301
	1ml	60mg	100/pk	CTS02-0601
	3ml	60mg	50/pk	CTS02-0603
	6ml	150mg	30/pk	CTS02-1506
	6ml	200mg	30/pk	CTS02-2006
	6ml	500mg	30/pk	CTS02-5006

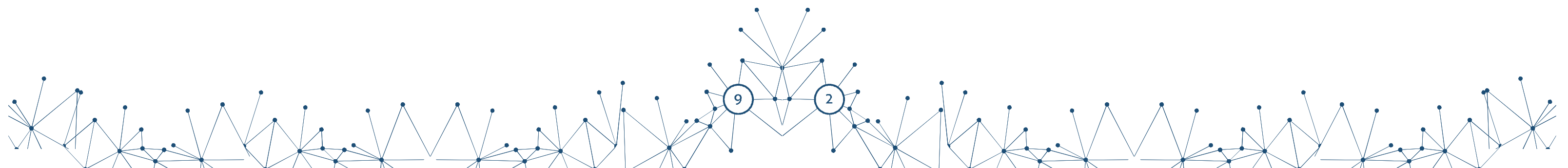
CleanX WAX

- > Polymeric weak anion exchange mixed mode SPE
- > The wide range of pH (pH 0-14)

Application

Improving retention for strong acidic compounds.

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
WAX	1ml	30mg	100/pk	CTS04-0301
	1ml	60mg	100/pk	CTS04-0601
	3ml	60mg	50/pk	CTS04-0603
	6ml	150mg	30/pk	CTS04-1506
	6ml	200mg	30/pk	CTS04-2006
	6ml	500mg	30/pk	CTS04-5006



CleanX WCX

- >Polymeric weak cation exchange mixed mode SPE
- >The wide range of pH (pH 0-14)

Application

Improving retention for all types of basic analytes, especially strong bases.

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
WCX	1ml	30mg	100/pk	CTS05-0301
	1ml	60mg	100/pk	CTS05-0601
	3ml	60mg	50/pk	CTS05-0603
	6ml	150mg	30/pk	CTS05-1506
	6ml	200mg	30/pk	CTS05-2006
	6ml	500mg	30/pk	CTS05-5006

CleanX PS

- > Unfunctionalized hyper-crosslinked PS-DVB polymer
- > Large particle size increasing flow rate of extraction
- > High surface area and capacity for polar analytes

Application

Designed for extracting polar analytes from water samples

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
PS	1ml	30mg	100/pk	CTS37-0301
	1ml	60mg	100/pk	CTS37-0601
	3ml	60mg	50/pk	CTS37-0603
	6ml	150mg	30/pk	CTS37-1506
	6ml	200mg	30/pk	CTS37-2006
	6ml	500mg	30/pk	CTS37-5006

CleanX C18

- > Reversed phase C18 based on high purity spherical silica gel
- > High uniformity of spherical material and stable flow rate
- > Suited for extracting low concentration analytes
- > High bonding density, low loss, high recovery

Application

Mainly used for desalting of macromolecular samples, such as blood, plasma, urine, drugs and their metabolites, proteins, DNA and enrichment of organic molecules in environmental water samples

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
C18	1ml	100mg	100/pk	CTS06-1001
	3ml	200mg	50/pk	CTS06-2003
	3ml	500mg	50/pk	CTS06-5003
	6ml	500mg	30/pk	CTS06-5006
	6ml	1000mg	30/pk	CTS06-0006
	12ml	2000mg	20/pk	CTE06-2012

CleanX C8

- >High uniformity of spherical material, stable flow rate
- >Similar to C18 bonding, non-polar carbon bond interactions
- >Weaker retention for non-polar compounds than C18
- >Helps to elute samples that are strongly adsorbed by non-polar interaction.

Application

Mainly used for simultaneously extracting of fat-soluble and water-soluble vitamins from plasma, commonly used for desalting biological macromolecular samples.

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
C8	1ml	100mg	100/pk	CTS07-1001
	3ml	200mg	50/pk	CTS07-2003
	3ml	500mg	50/pk	CTS07-5003
	6ml	500mg	30/pk	CTS07-5006
	6ml	1000mg	30/pk	CTS07-0006

CleanX QuEChERS

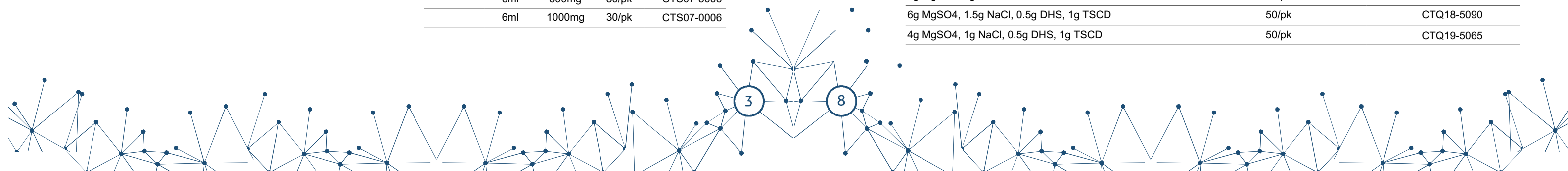
- Rapid sample pretreatment
- Customized combination with different adsorbent, synergistic, rapid analysis
- Pesticide residue analysis in vegetable and fruit, with dispersive SPE function

Application :

Mainly used in detection for pesticide residue, veterinary drug residue, food additive testing and other fields.

Ordering Information

Description	Unit	P/N
2mL clean-up kit		
150mg MgSO ₄ , 50mg PSA	100/pk	CTQ02-0202
150mg MgSO ₄ , 25mg PSA	100/pk	CTQ01-0202
150mg MgSO ₄ , 50mg PSA, 50mg C18	100/pk	CTQ04-0203
150mg MgSO ₄ , 25mg PSA, 25mg C18	100/pk	CTQ03-0202
150mg MgSO ₄ , 25mg PSA, 2.5mg GCB	100/pk	CTQ05-0202
150mg MgSO ₄ , 25mg PSA, 7.5mg GCB	100/pk	CTQ06-0202
150mg MgSO ₄ , 50mg PSA, 50mg GCB	100/pk	CTQ07-0203
150mg MgSO ₄ , 50mg PSA, 50mg C18, 50mg GCB	100/pk	CTQ09-0203
150mg MgSO ₄ , 50mg C18	100/pk	CTQ11-0202
15mL clean-up kit		
1200mg MgSO ₄ , 400mg PSA	50/pk	CTQ02-1516
900mg MgSO ₄ , 150mg PSA	50/pk	CTQ01-1511
1200mg MgSO ₄ , 400mg PSA, 400mg C18	50/pk	CTQ04-1520
900mg MgSO ₄ , 150mg PSA, 150mg C18	50/pk	CTQ03-1512
300mg MgSO ₄ , 100mg PSA, 100mg C18	50/pk	CTQ04-1505
900mg MgSO ₄ , 150mg PSA, 15mg GCB	50/pk	CTQ05-1511
900mg MgSO ₄ , 150mg PSA, 50mg GCB	50/pk	CTQ08-1511
1200mg MgSO ₄ , 400mg PSA, 400mg GCB	50/pk	CTQ07-1520
1200mg MgSO ₄ , 400mg PSA, 400mg C18, 400mg GCB	50/pk	CTQ09-1524
900mg MgSO ₄ , 150mg PSA, 150mg C18, 150mg GCB	50/pk	CTQ10-1514
1000mg MgSO ₄ , 200mg C18	50/pk	CTQ11-1512
Extraction kit (NOT INCLUDE 50ml centrifuge tube)		
6g MgSO ₄ , 1.5g NaCOOH·3H ₂ O	50/pk	CTQ14-5075
6g MgSO ₄ , 1.5g NaCl	50/pk	CTQ15-5075
6g MgSO ₄ , 1.5g NaCOOH	50/pk	CTQ16-5075
6g MgSO ₄ , 1g NaCl	50/pk	CTQ17-5070
4g MgSO ₄ , 1g NaC	50/pk	CTQ15-5050
6g MgSO ₄ , 1.5g NaCl, 0.5g DHS, 1g TSCD	50/pk	CTQ18-5090
4g MgSO ₄ , 1g NaCl, 0.5g DHS, 1g TSCD	50/pk	CTQ19-5065



CleanX TRF

TRF is filled with 3 kinds of adsorbent, exhibiting different interactions for removing impurities, optimized ratio for packing materials, suited for the removal of complex matrix, avoid irreversible adsorption with pesticides. The method has good applicability and can be used for simultaneous detection of multiple pesticide residues in complex tea matrices.

Analysis for pesticide residues in Tea leaves.

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
TRF	6ml	1000mg	30/pk	CTS24-0006
	12ml	2000mg	20/pk	CTS24-2012

CleanX GCB/NH2

>Graphitized carbon has a special surface treatment and exhibit strong interaction with planar molecules, such as chlorophyll and carotene in fruits and vegetables.

>NH2 is silica gel bonded with an aminopropyl, used to remove fatty acids, organic acids, or other interfering substance

Application

Mainly used for analysis of pesticide residue, applied to the corresponding detection of various pesticide, residues involved in the Japanese positive list system, Applied to 500 kinds of pesticide residues in fruits and vegetables, mentioned on the national standard GB/T 19648-2006

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
GCB/NH2	6ml	800mg	30/pk	CTS19-8006
	6ml	1000mg	30/pk	CTS19-0006
	12ml	2000mg	20/pk	CTS19-2012

CleanX BAP

Extraction of benzopyrene in edible oil with using SPE column, and then eluted by dichloromethane. The method is better for fat removal, recovery rate is much more stable, lower background and less solvent consumption.

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
BAP	6ml	500mg	30/pk	CTS21-5006

CleanX PAE

Used with glass SPE column, for the detection of plasticizers in foods and health products. It has a good purifying effect and higher sample recovery rate, widely used for analyzing phthalates in different matrices like food containing fats and oil, and water-soluble samples.

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
PAE	6ml	1000mg	30/pk	CTS23-0006

CleanX NH2

>Silica-based aminopropyl extraction column
>Dual action of polar stationary phase and weak anion exchanger
>Can be used for both reversed phase or normal phase extraction

Application

Mainly used to remove strong anions such as sulfonate residues in samples.

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
NH2	1ml	100mg	100/pk	CTS09-1001
	3ml	200mg	50/pk	CTS09-2003
	3ml	500mg	50/pk	CTS09-5003
	6ml	500mg	30/pk	CTS09-5006
	6ml	1000mg	30/pk	CTS09-0006

CleanX SAX

>Strong anion exchange sorbent based on high purity spherical silica
>Silica surface is bonded with quaternary amine functional groups

Application

Mainly used for extracting of weak anionic compounds, like carboxylic acids. Mostly suited for the extraction of weak acids. Frequently used to remove strong anions (organic Nucleic acids, nucleotides, sulfonates, inorganic ions, etc.), and desalting of biological macromolecule, etc.

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
SAX	1ml	100mg	100/pk	CTS11-1001
	3ml	200mg	50/pk	CTS11-2003
	3ml	500mg	50/pk	CTS11-5003
	6ml	500mg	30/pk	CTS11-5006
	6ml	1000mg	30/pk	CTS11-0006

CleanX PSA

>Ethylenediamine-N-propyl with two different amino functional groups
>Higher pKa and ionic capacity compared with NH2
>Can be used for extraction of metal ions through chelation reaction

Application

Mainly used for pretreatment of samples in pesticide residue analysis to remove organic acids, pigments, metal ions and phenols, etc.

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
PSA	1ml	100mg	100/pk	CTS10-1001
	3ml	200mg	50/pk	CTS10-2003
	3ml	500mg	50/pk	CTS10-5003
	6ml	500mg	30/pk	CTS10-5006
	6ml	1000mg	30/pk	CTS10-0006

CleanX SCX

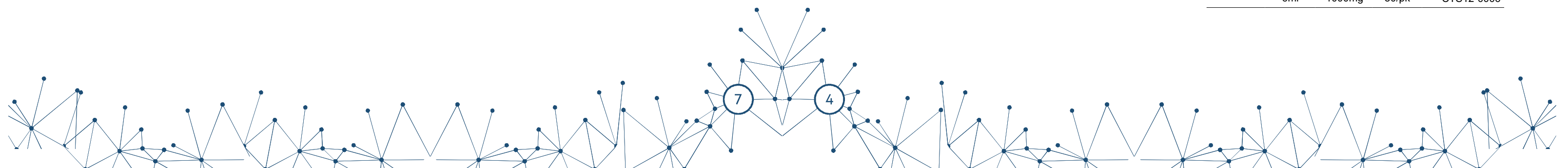
>Strong cation exchange sorbent based on high purity spherical silica gel
>Silica surface is bonded with benzene sulfonic acid functional groups

Application

Mainly used for the extracting of organic base compounds or the desalting of biological macromolecules, mixed with C18 for extract the organic base, such as antibiotics, Amino acids, catecholamines, herbicides, nucleic acid bases, nucleosides, surfactants, etc.

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
SCX	1ml	100mg	100/pk	CTS12-1001
	3ml	200mg	50/pk	CTS12-2003
	3ml	500mg	50/pk	CTS12-5003
	6ml	500mg	30/pk	CTS12-5006
	6ml	1000mg	30/pk	CTS12-0006



CleanX CN

- >A cyanopropyl SPE column based on high purity spherical silica
- >Preferred choice for Separation of intermediate compounds
- >Can be used for extraction for both RP or NP

Application

Mainly used for simultaneously extracting of fat-soluble and water-soluble vitamins from plasma, commonly used for desalting biological macromolecular samples

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
CN	1ml	100mg	100/pk	CTS08-1001
	3ml	200mg	50/pk	CTS08-2003
	3ml	500mg	50/pk	CTS08-5003
	6ml	500mg	30/pk	CTS08-5006
	6ml	1000mg	30/pk	CTS08-0006

CleanX Silica

- >Unbonded activated silica as adsorbent
- >Be of weakly acidic and exhibiting high polar interaction

Application

Mainly used to extract non-polar, weak-polar compounds, as greasy sample, Especially for substance has similarity in structure.

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
Silica	1ml	100mg	100/pk	CTS13-1001
	3ml	200mg	50/pk	CTS13-2003
	3ml	500mg	50/pk	CTS13-5003
	6ml	500mg	30/pk	CTS13-5006
	6ml	1000mg	30/pk	CTS13-0006

CleanX Florisil

- >Highly selective adsorbent
- >Composed by silica, magnesium oxide and sodium sulfate
- >Specially used for AOAC, EPA method, etc

Application

Mainly used for the separation and clean-up of pesticide residues, endocrine and fat, Separation of PCBs, PAHs, nitrogen compounds in hydrocarbons and antibiotics, Commonly used to remove pigments in pesticide residue analysis, necessary for NY761 analysis method

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
Florisil	1ml	100mg	100/pk	CTS14-1001
	3ml	200mg	50/pk	CTS14-2003
	3ml	500mg	50/pk	CTS14-5003
	6ml	500mg	30/pk	CTS14-5006
	6ml	1000mg	30/pk	CTS14-0006

CleanX GCB

- >New recoveries-increasing graphitized carbon
- >Excellent purification, and high reproducibility

Application

Mainly used in the analysis of pesticide residues, especially for removing pigments from sample pretreatment, of highly pigmented vegetables and fruits.

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
GCB	1ml	100mg	100/pk	CTS18-1001
	3ml	200mg	50/pk	CTS18-2003
	3ml	500mg	50/pk	CTS18-5003
	6ml	500mg	30/pk	CTS18-5006
	6ml	1000mg	30/pk	CTS18-5006

CleanX Al-N

- >Strong polar adsorbent with pH=7.5, neutral surface
- >Specialized deactivation treatment, so as not to interfere with sample preparation

Application

Mainly used in sample pretreatment for vitamins, antibiotics, aromatic oils, enzymes, glycosides, hormones, Widely used in sample pretreatment of Sudan red and malachite green, Exhibit interaction with heterocyclics (nitrogen, phosphorus, sulfur), and π -electrons of aromatic hydrocarbons and organic amines

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
Al-N	1ml	100mg	100/pk	CTS15-1001
	3ml	200mg	50/pk	CTS15-2003
	3ml	500mg	50/pk	CTS15-5003
	6ml	500mg	30/pk	CTS15-5006
	6ml	1000mg	30/pk	CTS15-0006

CleanX Al-B

- >Strong polar adsorbent with pH=8.5
- >Specialized deactivation to ensure analytes recovery

Application

Mainly used to remove organic acids, phenols and so on.

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
Al-B	1ml	100mg	100/pk	CTS17-1001
	3ml	200mg	50/pk	CTS17-2003
	3ml	500mg	50/pk	CTS17-5003
	6ml	500mg	30/pk	CTS17-5006
	6ml	1000mg	30/pk	CTS17-0006

CleanX Al-A

- >Medium cation exchange and strong polar adsorbents with pH=4.5
- >Specialized deactivation treatment, so as not to interfere with sample preparation

Application

Mainly used as medium cation exchanger.

Ordering Information

Sorbent	Volume (mL)	Bed Mass (mg)	Pack	P/N
Al-A	1ml	100mg	100/pk	CTS16-1001
	3ml	200mg	50/pk	CTS16-2003
	3ml	500mg	50/pk	CTS16-5003
	6ml	500mg	30/pk	CTS16-5006
	6ml	1000mg	30/pk	CTS16-0006

CleanX SLE

Specialy processed diatomaceous earth
Be of the largest surface area and balanced surface activity
Perfect Solid (supported) liquid-liquid extraction alternative to Biotage or Agilent SLE

Application

Mainly used in drug metabolism analysis, biochemical analysis, textile industry, food, Environment and other fields, of which 20ml/60ml SLE column can be applied to Detection, of 24 banned azo dyes in textiles mentioned on GB/T17592-2011

Ordering Information

Sorbent	Volume (mL)	Sample Size (mL)	Pack	P/N
SLE	3ml	0.5ml	50/pk	CTS20-5003
	6ml	1ml	30/pk	CTS20-0006
	12ml	2ml	20/PK	CTS20-2012
	25ml	4ml	15/PK	CTS20-4025
	60ml	20ml	10/PK	CTS20-2060

