

Your Specialists in Chromatography

Company Profile

SepaChrom is the brainchild of the founders to create a dedicated reality, unique and able to support the **Chromatography users** optimizing their challenges.

Our Core competence is the manufacturing and trading of **High-Quality** products for **Chromatography**.

SepaChrom product portfolio includes a wide range of in-house manufactured **HPLC** Columns in both **Analytical** and **Preparative** scale, **Flash** cartridges & Instruments, and **Process** scale purification.

Our offer of products for Chromatography includes consumables and accessories, for both **HPLC** and **GC** techniques.

Our brands **Robusta**®, **Adamas**®, **Vydamas**®, **TMC**®, **Purezza**®, **Sepa-Bulk**® are only few of the product lines we propose to the **Chromatographers**.

Our Mission

Decades of experience of our team, combined with a range of High Quality selected products and the most efficient technological solutions, allows **SepaChrom** to be a reference to :

- **Pharma,**
- **Biotech,**
- **Chemical,**
- **Food and Beverage,**
- **Cosmetic,**
- **Environmental,**
- **Clinical**
- **Petrolchemical**

industries, at **R&D** department as well **QC** laboratories and **Production**.

Our commitment is to provide the Highest Technical Support that Chromatographers expect from

Your Specialists in Chromatography



Customers in Mind

The success of **SepaChrom** depends by the complete **satisfaction** of our customers, and consequently by their success.

SepaChrom expertise result in a High-Quality support **pre & after** sales to the Chromatographic Users.

A world-wide Distributor Network will assure the users the best in class technical and commercial support to properly approach their Chromatography challenges.

This include a **fast delivery** of your products from our warehouse to everywhere.



SPE

Solid Phase Extraction Introduction	
Choosing an SPE Product.....	4
SPE Method Development an SPE Product.....	4
SEClute™ - Solid Phase Extraction Columns.....	5
SEClute™ - Sorbent Specification.....	5
SEClute™ - Cross Reference Tradename List.....	5
SEClute™ - Reversed Phase SPE Columns.....	6
SEClute™ - Normal Phase SPE Columns.....	6
SEClute™ - Ion Exchange SPE Columns.....	6
SEClute™ - Florisil® SPE Columns.....	7
SEClute™ - HLB & Mixed Mode Polymeric SPE Columns.....	7
Extract-Clean™ - Solid Phase Extraction Columns.....	8
Extract-Clean™ - Sorbent Specification.....	8
Extract-Clean™ - Reversed Phase SPE Columns.....	8
Extract-Clean™ - Normal Phase SPE Columns.....	9
Extract-Clean™ - Ion Chromatography SPE Columns.....	9
Extract-Clean™ - Carbograph SPE Columns.....	9
Vydac® - BioSelect SPE Columns.....	10
Maxi-Clean™ - Solid Phase Extraction Cartridges.....	11
Maxi-Clean™ - 10 Ways to Use Maxi-Clean™ SPE Columns.....	11
Maxi-Clean™ - Sorbent Specification.....	12
Maxi-Clean™ - Reversed Phase SPE Columns.....	12
Maxi-Clean™ - Normal Phase SPE Columns.....	12
Maxi-Clean™ - Drying Cartridges.....	12
Maxi-Clean™ - Ion Chromatography SPE Columns.....	13
Maxi-Clean™ - Ion Exchange SPE Columns.....	13
PuroPhase™ SPE Reverse Phase.....	14
Bulk SPE Packings.....	14
Solid Phase Extraction - Accessories.....	15
12 - 16 & 24 Position Vacuum Manifold.....	15
Manifold Accessories and Needles.....	16
SPE Empty Columns and Frits.....	16



SPE

Solid Phase Extraction Columns - Introduction

Solid-phase extraction (SPE) is a sample preparation technique routinely used in analytical laboratories for the extraction of analytes from a complex matrix.

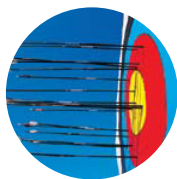
SepaChrom offer a wide range of SPE items produced by well-known market leader manufacturers

to assure High Quality products due to strictly controlled processes in both production and quality control steps.

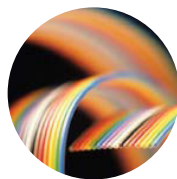
SeClute, Extract-Clean, Maxi-Clean, Vydac and Purolite offer a comprehensive range of products to face all your sample preparation challenges, including Ion Chromatography SPE



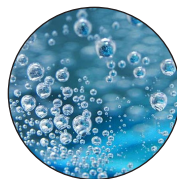
SEClute™



Extract-Clean™



Maxi-Clean™



IC SPE



Purolite®



Vydac Bioselect®

Choosing an SPE Product

These are the typical steps when you have to choose the proper SPE product for your application:

1. Characterize your sample.

The polarity of your analyte vs. the matrix, the charged functional groups, molecular weight, solubility influence how the analyte is retained by the SPE bed.

2. Choice of Retention Strategy

Two basic methods exist for the sample treatment

a. Select the proper packing to retain the target analyte. The contaminants are washed off and the target analyte is elute for further analyses.

b. Select the proper packing to retain the contaminant. The target analyte directly pass through the SPE column.

3. Choose the Proper Packing

According with the previous points you need to select the proper packing to obtain the highest recovery and cleanest extract.

a. Reversed-Phase silica based materials are hydrophobic and retain moderately polar to non-polar interferences. Or retain non-polar contaminants

while the polar compounds pass through the bed.

b. Normal-Phase silica based materials are hydrophilic and retain polar compounds from non-polar matrix. Or retain polar contaminants while the non-polar compounds pass through the bed.

c. Ion-Exchange Resins retain charged compounds and/or remove ionic interferences.

4.- Optimization of the Conditions

Choose the bed size and most appropriate solvents.

a. Too big packing bed results in incomplete elution; too small bed results in incomplete retention.

b. Consider the solvent strength versus the packing material. The solvent of the conditioning step should not act as eluting solvent. Buffers should be

used to control ionization of charged compounds.

c. The washing solvents should not be strong enough to elute the target analyte. It should only removes the retained interferences.

d. Elution solvents should be strong enough to fully elute an analyte in a small volume (<2mL)

Recommended Guideline			
Bed Size / Sorbent Capacity	Condition Volume (4 Bed Volume)	Wash Volume (6 Bed Volume)	Minimum Elution Volume (3 Bed Volume)
50mg / 2.5mg	0.30mL	0.45mL	0.23mL
100mg / 5mg	0.60mL	0.90mL	1.80mL
200mg / 10mg	1.20mL	1.80mL	0.90mL
500mg / 25mg	3.00mL	4.50mL	2.25mL
1000mg / 50mg	6.00mL	9.00mL	4.50mL
2000mg / 100mg	12.00mL	18.00mL	9.00mL
5000mg / 250mg	30.00mL	45.00mL	22.50mL
10000mg / 500mg	60.00mL	90.00mL	45.00mL

The above table is for estimation purpose only. Must optimize for each application

SPE Method Development

Commonly an SPE Method Development contains 4 Steps :

Step 1 : Condition the SPE Column

Two Substeps compose the conditioning step :

- activation of the sorbent ligands
- equilibration of the sorbent bed.

Step 2 : Load the sample

In this step the sample is applied to the SPE column. Flow Rate and Matrix are optimized to retain the analyte of interest quantitatively.

Step 3 : Wash the SPE Column

You need to choose the proper solvent to elutes the impurities and retain the target analytes. Often the second conditioning solvent is a good choice of washing.

Step 4 : Elute the Analyte

The elution step should remove all target analytes with the minimum solvent to maximize the sensitivity. A combination of solvents is sometime required.

General SPE Method Development Procedures

Packing	Step 1 - Conditioning	Step 2 - Loading	Step 3 - Washing	Step 4 - Eluting
Reversed-Phase Mechanism : retain moderately polar to non-polar compounds from a polar sample matrix	MeOH followed by Water	Process sample at 1-5mL/min Flow	Water or Water:MeOH (95:5)	MeOH or Acetonitrile. To break secondary interaction may need to add a strong acid or base.
Normal-Phase Mechanism : retain polar compounds from a non-polar sample matrix	IPA followed by Hexane	Process sample at 1-5mL/min Flow	Hexane or Hexane:IPA (98:2)	IPA, Ethyl Acetate, Acetone, Hexane:IPA (50:50)
Ion-Exchange Mechanism : retain charged compounds (negative/anionic or positive/cationic)	MeOH:Water (50:50) followed by Low Ionic strength (0.1M) Buffer	Process sample at ≤1mL/min Flow. Ion Exchange kinetics are slower than RP or NP	MeOH:Low Ionic Strength (0.1M) Buffer (10:90)	High Ionic Strength (0.5M-1.0M) Buffer or pH modifier to uncharge the analyte. Add organic if need to break hydrophobic interactions.

SEClute™ - Solid Phase Extraction Columns

SEClute™ Choices

SEClute™ SPE product line is suitable in pharmaceutical, agriculture, food & beverage, petrochemical and environmental application. These products deliver the selectivity and high recovery you expect from an SPE process. This guide help you to choose the appropriate sorbent, bed size, and solvent volumes to obtain a cleaner, more concentrated sample at the end of your SPE process, ready for further analyses and investigation.

Highest Quality Control

Every part of SEClute™ SPE manufacturing process is carefully monitored. From silica production to final product, over 30 tests are performed, and the products come with a comprehensive quality assurance certificate that displays the 18 most meaningful results to the SPE user.*

*Applies to silica-based media.

Component Tests

GC/FID shows that SEClute™ tubes are constructed from a highly inert grade of polypropylene to prevent extractable contamination. Polyethylene frits are thoroughly washed in organic solvent which also eliminates extractables.

Manufacturing Control

SEClute™ SPE products are packed and assembled using custom-designed, precision equipment. Every manufacturing batch is guaranteed to have less than 2% bed weight variation and uniform flow rates.



SEClute™ Sorbent Specification - Reversed-Phase and Normal-Phase

Packing	Support	% Carbon	End Capped	Surface Area	Average Particle Size	Pore Size	Feature	Benefits	Typical Application
C18-Max	Silica	17.1%	Yes	518 m ² /g	50μ	60Å	Polymerically bonded	Highest binding capacity, best for complex samples or structurally diverse analytes.	Drugs and their metabolites in serum and plasma, pesticides
C18-Aq	Silica	12.5%	Yes	518 m ² /g	50μ	60Å	Hydrophilic endcapping	100% Water-wettable C18 ideal for aqueous samples. Phase remains active even when completely dry	Desalting proteins, pharmaceuticals, hormones, pesticides, organics in water
C18-Low	Silica	6.5%	Yes	518 m ² /g	50μ	60Å	Least hydrophobic	C18 phase that easily releases very hydrophobic compounds.	Surfactants, oils, antibiotics
C18-Fast	Silica	7.0%	Yes	518 m ² /g	100μ	60Å	Large particle size	Process large volume (>500mL) or viscous samples with fast flow rates	Aniline, pesticides,haloethers, phthalate esters, EPA 3620, 3610
TMS	Silica	5.6	No	518 m ² /g	50μ	60Å	Low carbon load trimethyl silane phase	Least hydrophobic reversed phase elutes non-polar compounds easily. Short carbon chain has uniformly cover silica surface	Oils, dyes, surfactants
Silica	Silica	N/A	N/A	518 m ² /g	50μ	60Å	Most polar phase	Able to differentiate between structurally similar compounds	Aflatoxins, pesticides,steroids, structural isomers
Amino	Silica	4.3%	No	518 m ² /g	50μ	60Å	Dual retention	Retains polar compounds,or can act as a weak anion exchanger. Easily releases strong acids when SAX binds too strongly.	Carbohydrates, dyes, lipids, mycotoxins, strong acids
Diol	Silica	N/A	No	518 m ² /g	50μ	60Å	Reproducible polar bonded phase	Very polar phase that has the same benefits as silica, but wets easily and offers more reproducibility.	Alkaloids, lipids, oils, structural isomers

SEClute™ Sorbent Specification - Ion-Exchange Phase

Packing	Support	Exchange Capacity	Counter Ion	Average Particle Size	Feature	Benefits	Typical Application
Anion-X	8% cross-linked Styrene-DVB	1.5 meq/g	Acetate Form	50μ	Tetramethyl ammonium functional group on polymer	pH range from 1–14, with excellent exchange capacity	Anionic compounds: organic acids, fatty acids
Cation-X	8% cross-linked Styrene-DVB	2.4 meq/g	Hydrogen Form	50μ	Benzene sulfonic acid functional group on polymer base material	pH range from 1–14, with excellent exchange capacity.	Cationic compounds: amines, amino acids

SEClute™ - Solid Phase Extraction Columns

SEClute™ SPE Columns

- Reversed-Phase Columns
- Normal-Phase Columns
- Ion-Exchange Columns

SEClute™ - Reversed-Phase Columns				
Packing	Bed Weight / Tube Volume	Qty	Old Alltech #	Part.No
C18-MAX	50mg / 1mL	100	5141484	LD0225
	100mg / 1mL	100	5138765	LD0207
	200mg / 3mL	50	5141686	LD0001
	500mg / 3mL	50	5138766	LD0208
	500mg / 6mL	30	5138767	LD0209
	1000mg / 6mL	30	5138768	LD0210
C18-Aq	2000mg / 20mL	20	5141525	LD0234
	5000mg / 20mL	20	5141524	LD0233
	50mg / 1mL	100	5141486	LD0226
	100mg / 1mL	100	5138774	LD0214
	500mg / 3mL	50	5138775	LD0215
	1000mg / 6mL	30	5138776	LD0242
C18-Low	2000mg / 12mL	30	5141482	LD0224
	5000mg / 20mL	20	5141523	LD0232
	100mg / 1mL	100	5138760	LD0202
	200mg / 3mL	50	5138761	LD0203
	500mg / 3mL	50	5138762	LD0204
	500mg / 6mL	30	5138763	LD0205
C18-Fast	1000mg / 6mL	30	5138764	LD0206
	500mg / 3mL	50	5138758	LD0200
	1000mg / 6mL	30	5138759	LD0201
	5000mg / 20mL	20	5141527	LD0235
TMS	100mg/1mL	100	5138785	LD0413
	500mg/3mL	50	5138786	LD0414

Chlorinated Pesticides from Water

Procedure Using SEClute C18-Fast, 1000mg:

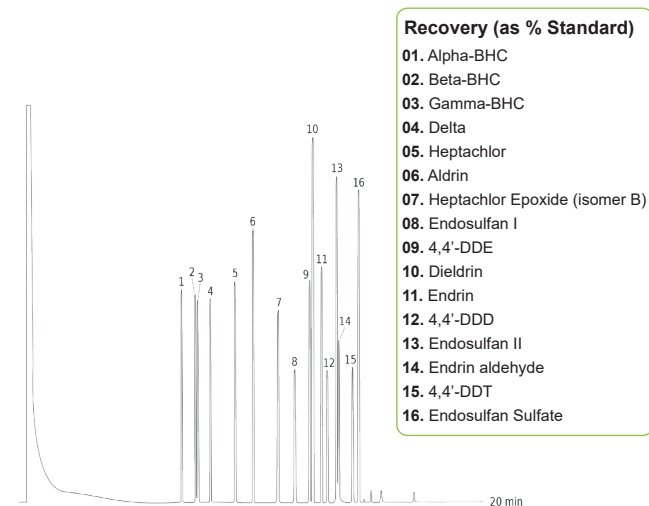
Conditioning - Rinse device with 5mL of methanol followed by 5mL deionized water.

Sample Application - Pass 100m-500mL (containing 1% methanol) of water sample through the device at 20mL/minute.

Wash - Wash device with 10mL of deionized water then 10mL of methanol deionized water (20:80). Remove excess by passing air through the device for two minutes.

Elution - Elute with 2mL of hexane: ethyl acetate (70:30)

Pass extract through 2g-3g sodium sulfate to remove residual water.



Column : MEGA-5 - 0.32mm, 0.25µm, 25m Column, (Part NO. S-5-032-025-25)

Injection : On-Column, 1µL.

Temperature : 65°C, 20°C/min, 150°C, 7°C/min, 260°C.

Carrier Gas : Hydrogen, 60 kPa.

Detector : FID 280°C.

Carbamate Pesticides from Water

Procedure using SEClute™ C18-Fast, 500mg:

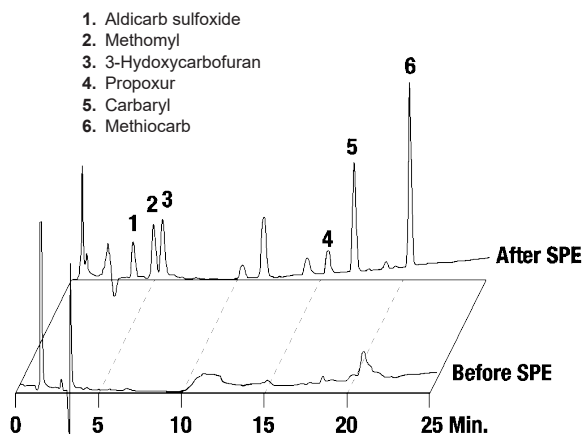
Sample Treatment – Spike 500mL tap water with 125µL carbamate solution for final concentration of 25ppb.

Conditioning – Rinse with 3mL acetonitrile:water (80:20) followed by 3mL water. Dry with vacuum.

Sample Application – Apply 500µL sample.

Wash – 2 x 3mL water.

Elution – Elute with 4 x 1mL acetonitrile:water (80:20)



Column: Adamas C18-Select, 5µm, 250 x 4.6mm HPLC Column (Part No. AD0558)
Mobile Phase: A: DI water B: Acetonitrile
Gradient: (Time, %B): (0,25), (5,25), (20,50), (25,50), (30,25)
Flow Rate: 1mL/min
Detector: UV at 210nm
Temperature: Ambient

SEClute™ - Normal-Phase Columns				
Packing	Bed Weight / Tube Volume	Qty	Old Alltech #	Part.No
Silica	100mg / 1mL	100	5138777	LD0216
	200mg / 3mL	50	5138778	LD0217
	500mg / 3mL	50	5138779	LD0218
	500mg / 6mL	30	5138781	LD0220
	1000mg / 6mL	30	5138782	LD0221
	2000mg / 12mL	30	5138783	LD0222
	5000mg / 20mL	20	5138780	LD0219
Amino	10000mg / 60mL	16	5138784	LD0223
	500mg / 3mL	50	5138752	LD0196
Diol	1000mg / 6mL	30	5138753	LD0197
	100mg / 1mL	100	5138771	LD0444
	200mg / 3mL	50	5138772	LD0445
	500mg / 3mL	50	5138773	LD0213

SEClute™ - Ion-Exchange Columns				
Packing	Bed Weight / Tube Volume	Qty	Old Alltech #	Part.No
Anion-X	100mg / 1mL	100	5138754	LD0198
	500mg / 3mL	50	5138755	LD0199
	1000mg / 6mL	50	5141487	LD0227
Cation-X	500mg / 6mL	100	5138769	LD0211
	500mg / 3mL	50	5138770	LD0212
	1000mg / 6mL	50	5141488	LD0228

SEClute™ - Solid Phase Extraction Columns

SEClute™ Florisil® SPE Columns

Florisil® is a commonly used sorbent for the clean-up or concentration of samples in environmental analysis.

- Highest quality control for maximum reproducibility
- A Quality Certificate in every box
- Less than 2% bed weight variation
- Highly inert tubes and frits to prevent extractable contamination
- **At Exceptional Price**

SEClute™ Sorbent Specification - Florisil®

Support	Endcapping	Surface Area	Particle Size	Pore Size	Feature	Benefits	Typical Application
Magnesium Silicate	No	298 m ² /g	120µ	60Å	Alternate Polar Phase	Large Particle Size processes large sample sizes quickly	Environmental

SEClute™ - Florisil® SPE Columns

Packing	Bed Weight	Qty	Old Alltech #	Part.No
Florisil®	500mg / 3mL	50	5141522	LD0231
	500mg / 6mL	30	5176434	LD0251
	1000mg / 6mL	30	5141520	LD0229
	2000mg / 12mL	30	5141521	LD0230
	4000mg / 12mL	30	5178165	LD0446

SEClute™ - Florisil®-PR - SPE Columns

Packing	Bed Weight	Qty	Old Alltech #	Part.No
Florisil®-PR	1000mg / 6mL	30	5178138	LD0411

PCBs in Transformer Oil

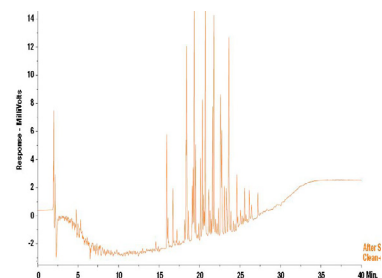
SPE Column : SEClute™ Florisil® 1000mg/6mL (Part No LD0229):

Sample Treatment – Dissolve 0.25g of transformer oil spiked with Aroclor 1254 (at a concentration of 50mg/kg) in 20mL of n-Hexane.

Conditioning – 2 x 5mL n-Hexane, making sure the column does not dry.

Sample Application – Attach 25mL reservoir (Part No. LA0006) with a syringe adapter and run sample through conditioned Florisil® column, aspirating all the solution from the tube. Evaporate the volume down to 4mL and analyzed by GC/ECD.

Column: AT™5ms column.
30m x 0.25mmID, 0.25µ
(Part No. PG0062)
Oven: 150°C (2 min)
300°C (8 min) at 5°C/min
Linear Velocity: 25 cm/second
Flow: 0.74 mL/min
Split Ratio: 64:1,
Injector: 275°C



SEClute™ HLB & Mixed Mode Polymeric SPE Columns

For the Clean-Up, Concentration and Recovery of Chromatography Samples

SEClute™ Polymeric Spe Specifications

Sorbent	Support	Surface Area (m ² /g)	Particle Size (µm)	Pore Size (Å)	Features and Benefits
SEClute™ HLB	Polymeric	800	40	70	Uncharged Hydrophilic and Lipophilic Sorbent - suited to a wide range of analytes (polar, apolar, acidic, basic)
SEClute™ P-SAX	Polymeric	600	40	60	Strong Anion Exchange sorbent interacting with analytes via a mixed mode mechanism, ion exchange with strong basic functional groups and reverse phase. Particularly suited for the extraction of weak acids
SEClute™ P-SCX	Polymeric	600	40	60	Strong Cation Exchange sorbent interacting with analytes via a mixed mode mechanism, ion exchange with strong acid functional groups and reverse phase. Particularly suited for the extraction of weak bases.
SEClute™ P-WAX	Polymeric	650	40	60	Weak Anion Exchange sorbent interacting with analytes via a mixed mode mechanism, ion exchange with weak basic functional groups and reverse phase. Particularly suited for the extraction of strong acids
SEClute™ P-WCX	Polymeric	850	40	70	Weak Cation Exchange sorbent interacting with analytes via a mixed mode mechanism, ion exchange with weak acid functional groups and reverse phase. Particularly suited for the extraction of strong bases.

SEClute™ - Polymeric SPE Columns

Packing	Bed Weight	Volume	Qty	Part.No
SEClute™ HLB	10mg	1mL	100pkg	LD0346
	10mg	3mL	50pkg	LD0347
	30mg	1mL	100pkg	LD0340
	30mg	1mL	50pkg	LD0341
	30mg	3mL	100pkg	LD0246
	30mg	3mL	50pkg	LD0342
	60mg	3mL	100pkg	LD0344
	60mg	3mL	50pkg	LD0345
	100mg	3mL	100pkg	LD0335
	100mg	3mL	50pkg	LD0336
SEClute™ P-WAX	10mg	1mL	100pkg	LD0376
	10mg	1mL	50pkg	LD0377
	30mg	1mL	100pkg	LD0378
	30mg	1mL	50pkg	LD0379
	30mg	3mL	100pkg	LD0382
	30mg	3mL	50pkg	LD0383
	60mg	3mL	100pkg	LD0384

SEClute™ - Polymeric SPE Columns

Packing	Bed Weight	Volume	Qty	Part.No
SEClute™ P-WAX	60mg	3mL	50pkg	LD0385
	100mg	3mL	100pkg	LD0374
	100mg	3mL	50pkg	LD0375
SEClute™ P-WCX	10mg	1mL	100pkg	LD0386
	10mg	1mL	50pkg	LD0387
	30mg	1mL	100pkg	LD0388
	30mg	1mL	50pkg	LD0389
	30mg	3mL	100pkg	LD0390
	30mg	3mL	50pkg	LD0391
	60mg	3mL	100pkg	LD0392
	60mg	3mL	50pkg	LD0393
	100mg	3mL	100pkg	LD0394
	100mg	3mL	50pkg	LD0395
SEClute™ P-SAX	10mg	1mL	100pkg	LD0351
	10mg	1mL	50pkg	LD0352
	30mg	1mL	100pkg	LD0353
	30mg	1mL	50pkg	LD0354

SEClute™ - Polymeric SPE Columns

Packing	Bed Weight	Volume	Qty	Part.No
SEClute™ P-SAX	30mg	3mL	100pkg	LD0355
	30mg	3mL	50pkg	LD0356
	60mg	3mL	100pkg	LD0357
	60mg	3mL	50pkg	LD0358
	100mg	3mL	100pkg	LD0349
	100mg	3mL	50pkg	LD0350
SEClute™ P-SCX	10mg	1mL	100pkg	LD0369
	10mg	1mL	50pkg	LD0370
	30mg	1mL	100pkg	LD0363
	30mg	1mL	50pkg	LD0364
	30mg	3mL	100pkg	LD0372
	30mg	3mL	50pkg	LD0373
	60mg	3mL	100pkg	LD0366
	60mg	3mL	50pkg	LD0367
	100mg	3mL	100pkg	LD0361
	100mg	3mL	50pkg	LD0362

Extract-Clean™ - Solid Phase Extraction Columns

Extract-Clean™ Choices

In production for over 35 years, with proven consistency, this is our most comprehensive SPE product line.

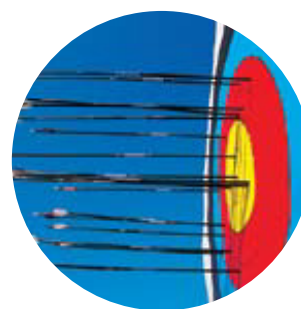
It includes 30 media types in over 10 different bed weights.

And with a complete offering of reversed, normal, and specialty medias exhibiting unique retention properties, you are sure to find the packing that delivers a cleaner, more concentrated sample.

Highest Quality Control

Every part of the manufacturing process is carefully monitored.

From silica production to final product, we perform multiple quality tests , and provide a comprehensive quality assurance.

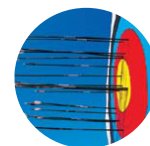


Extract-Clean™ Sorbent Specification							
Packing	Support	% Carbon	End Capped	Average Particle Size	Pore Size	Feature	Benefits
Prevail™ C18	Silica	11.0%	Yes	50µ	60Å	100% water wettable	Hydrophilic/hydrophobic retention. Phase remains active even when completely dry. Can omit preconditioning step.
Standard C18	Silica	6.0%	Yes	50µ	60Å	Low carbon load C18	General purpose phase.
High-Flow C18	Silica	8.0%	Yes	100µ	60Å	Large particle	Less flow resistance for faster flow rates of large volume sample.
High-Capacity C18	Silica	17.0%	Yes	50µ	60Å	High carbon load	Maximum capacity phase.
Large Pore C18	Silica	14.0%	Yes	50µ	150Å	Larger than average pore size	Ideal for compounds >1500MW
Octyl (C8)	Silica	4.5%	Yes	50µ	60Å	Less hydrophobic than C18	Less retention of highly hydrophobic compounds. Use when C18 is too retentive.
Silica (SI)	Silica			50µ	60Å	Highly polar surface	Most common polar phase.
Aminopropyl (NH ₂)	Silica	5.0%	No	50µ	60Å	Polar phase with slight anion exchange properties	Ideal for carbohydrates or generally with analyses containing hydroxyl functional groups.
Cyanopropyl (CN)	Silica	6.0%	Yes	50µ	60Å	Unique selectivity	Can be used in normal-phase or reversed -phase modes.
Diol (20H)	Silica	4.0%	No	50µ	60Å	Polar surface with minor hydrophobic retention	Wets easily and offers more reproducibility.
Florisil® (FL)	Magnesium Silicate			75-150µ	60Å	Highly polar surface	Referenced in many EPA methods. Ideally suited for pesticides and metals.
Alumina Acidic (AL-A)	Aluminium Oxide			130µ	100Å	Alumina washed with acid surface	Increase capacity for acid compounds.
Alumina Basic (AL-B)	Aluminium Oxide			130µ	100Å	Alumina washed with base surface	Increase capacity for basic compounds.
Alumina Neutral (AL-N)	Aluminium Oxide			130µ	100Å	Alumina washed with neutral surface	Interacts with highly aromatic compounds and neutral hydroxyls.

Extract-Clean™ - Reversed-Phase Columns				
Packing	Bed Weight / Tube Volume	Qty	Old Alltech #	Part.No
Prevail™ C18	100mg / 1.5mL	100	605001	LD0175
	500mg / 4.0mL	50	605250	LD0176
	500mg / 8.0mL	30	605350	LD0177
	1000mg / 8.0mL	30	605430	LD0178
Standard C18	50mg / 1.5mL	100	204900	LD0028
	100mg / 1.5mL	100	205000	LD0029
	100mg / 4.0mL	50	5176433	LD0277
	200mg / 4.0mL	50	205150	LD0030
	500mg / 4.0mL	50	205250	LD0031
	500mg / 8.0mL	30	205350	LD0032
	1000mg / 8.0mL	30	205430	LD0033
	2000mg / 8.0mL	30	205450	LD0034
	2000mg / 15mL	30	205462	LD0035
	5000mg / 25mL	20	225450	LD0128
High-Flow C18	500mg / 4.0mL	50	215250	LD0116
	1000mg / 8.0mL	30	215430	LD0117

Extract-Clean™ - Reversed-Phase Columns				
Packing	Bed Weight / Tube Volume	Qty	Old Alltech #	Part.No
High-Flow C18	500mg / 4.0mL	50	215250	LD0116
	1000mg / 8.0mL	30	215430	LD0117
High-Capacity C18	100mg/1.5mL	100	255100	LD0143
	200mg/4.0mL	50	255200	LD0144
	500mg/4.0mL	50	255300	LD0145
	500mg/8.0mL	30	255350	LD0146
	1000mg/8.0mL	30	255430	LD0147
	2000mg/15mL	30	255440	LD0148
Octyl (C8)	5000mg/25mL	20	255450	LD0149
	10,000mg/75mL	16	255460	LD0237
	100mg / 1.5mL	100	206000	LD0036
	200mg / 4.0mL	50	206150	LD0037
	500mg / 4.0mL	50	206250	LD0038
Ethyl (C2)	500mg / 8.0mL	30	206350	LD0039
	500mg / 4.0mL	50	5122314	LD0040
	1000mg/8.0mL	30	5178150	LD0278
Phenyl (PH)	500mg / 4.0mL	50	5122505	LD0137

Extract-Clean™ - Solid Phase Extraction Columns



Extract-Clean™ - Normal-Phase Columns				
Packing	Bed Weight / Tube Volume	Qty	Old Alltech #	Part.No
Silica (SI)	50mg /1.5mL	100	209062	LD0049
	100mg/1.5mL	100	209000	LD0048
	200mg /4.0mL	50	209150	LD0051
	500mg /4.0mL	50	209250	LD0054
	500mg /8.0mL	30	209200	LD0052
	1000mg/8.0mL	30	209100	LD0050
	2000mg/8.0mL	30	209202	LD0053
	2000mg/15mL	30	209362	LD0060
	5000mg/25mL	20	22935	LD0136
	10,000mg/25mL	20	239300	LD0294
10,000mg/75mL	16	239310	LD0140	
20,000mg/75mL	16	239322	LD0141	
Aminopropyl (NH ₂)	100mg/1.5mL	100	211000	LD0106
	200mg/4.0mL	50	211025	LD0107
	500mg/4.0mL	50	211150	LD0111
	500mg/8.0mL	30	211256	LD0113
	1000mg/8.0mL	30	211256	LD0112
Cyanopropyl (CN)	200mg/4.0mL	50	209450	LD0064
	500mg/4.0mL	50	209550	LD0067
	500mg/8.0mL	30	209650	LD0080

Extract-Clean™ - Normal-Phase Columns				
Packing	Bed Weight / Tube Volume	Qty	Old Alltech #	Part.No
Diol (20H)	100mg/1.5mL	100	208000	LD0045
	200mg/4.0mL	50	208150	LD0046
	500mg/4.0mL	50	208250	LD0047
Florisil® (FL)	100mg/1.5mL	100	204500	LD0025
	200mg/4.0mL	50	5122316	LD0041
	500mg/4.0mL	50	204650	LD0026
	1000mg/8.0mL	30	207930	LD0042
	2000mg/15mL	30	207962	LD0044
5000mg/25mL	20	5122488	LD0129	
10000mg/75mL	16	5122508	LD0139	
Florisil®-PR (FL-PR)	1000mg/8.0mL	30	5122514	LD0142
Alumina Acidic (AL-A)	500mg/4.0mL	50	228350	LD0273
Alumina Basic (AL-B)	100mg/1.5mL	100	228000	LD0274
Alumina Neutral (AL-N)	100mg/1.5mL	100	228400	LD0131
	500mg/4.0mL	50	228550	LD0132
	1000mg/8.0mL	30	5122497	LD0275
	2000mg/15mL	30	22856	LD0133
	10,000mg/75mL	16	5122496	LD0134

Extract-Clean™ Sorbent Specification - Ion Chromatography

Packing	Base	Counter Ion	Particle Size	Limit Molecular Exclusion	Capacity Exchange	Retains	Benefits
IC-OH	Styrene-DVB	Hydroxide	50µm	1000 DAltons	1.0meq/mL	Anions	Exchanges anions for hydroxide. May be used to remove or concentrate anions from sample and to increase pH for acidic samples. Removes cations that form insoluble hydroxide salts.
IC-H	Styrene-DVB	Hydroxide	50µm	1000 DAltons	2.0meq/mL	Cations	Exchanges cations for H ⁺ . May be used to remove or concentrate cations from sample and to reduce pH of basic samples.
IC-Ag	Styrene-DVB	Silver	50µm	1000 DAltons	2.0meq/mL	Chloride Iodide Bromide	Removes excess halides through formation of Ag-halide salts.
IC-Ba	Styrene-DVB	Barium	50µm	1000 DAltons	2.0meq/mL	Sulfate	Removes excess sulfate through formation of BaSO ₄ .
IC-Na	Styrene-DVB	Sodium	50µm	1000 DAltons	2.0meq/mL	Cations	Exchanges cations for Na ⁺ . May be used to remove or retain cations from sample without changing the pH of the sample.
IC-Chelate	Styrene-DVB	Sodium	50µm	1000 DAltons	0.4meq/mL	Polyvalent metal ions	Exchanges transition metals and divalent cations for Na ⁺ . May be used to remove or retain divalent cations and transition metals from sample.
IC-RP	Polystyrene	-	550µm	-	-	Hydrophobic components	Removes surfactants, organic acids, and other organic substances. Inorganic ions pass through.

Ion Chromatography Extract-Clean™ Columns

Packing	Bed Weight / Tube Volume	Qty	Old Alltech #	Part.No
IC-OH	0.5mL/4.0mL	50	40262	LD0167
IC-OH	1.5mL/4.0mL	30	140254	LD0019
IC-H	0.5mL/4.0mL	50	40264	LD0168
IC-H	1.5mL/4.0mL	30	140256	LD0020
IC-Ag	0.5mL/4.0mL	50	105050	LD0018
IC-Ag	1.5mL/4.0mL	30	140258	LD0021
IC-Ba	0.5mL/4.0mL	50	40268	LD0169

Ion Chromatography Extract-Clean™ Columns

Packing	Bed Weight / Tube Volume	Qty	Old Alltech #	Part.No
IC-Ba	1.5mL/4.0mL	30	140261	LD0295
IC-Na	0.5mL/4.0mL	50	40270	LD0170
IC-Na	1.5mL/4.0mL	30	140263	LD0022
IC-Chelate	0.5mL/4.0mL	50	40250	LD0165
IC-Chelate	1.5mL/4.0mL	30	140265	LD0023
IC-RP	0.5mL/4.0mL	50	40260	LD0166
IC-RP	1.5mL/4.0mL	30	140252	LD0296

Carbograph Extract-Clean™ Columns

Bed Weight / Tube Volume	Qty	Old Alltech #	Part.No
150mL/4.0mL	50	210142	LD0099
300mL/8.0mL	30	210101	LD0096
500mL/8.0mL	30	210150	LD0100
1000mL/15mL	20	210121	LD0098

Carbograph Extract-Clean™ Columns

- Graphitized carbon retains polar organics in aqueous matrices
- Acid base-neutral extraction of pesticides and herbicides
- 100m²/g surface area



Vydac BioSelect® SPE Columns

For Extraction, Concentration and Clean-up of Biological Samples



Vydac Bioselect®

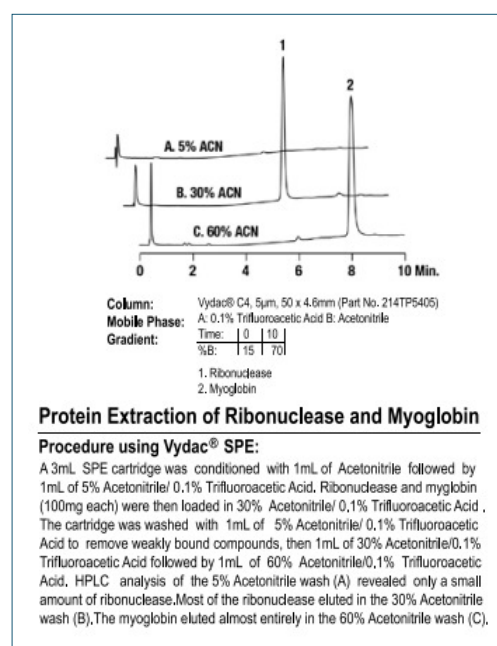
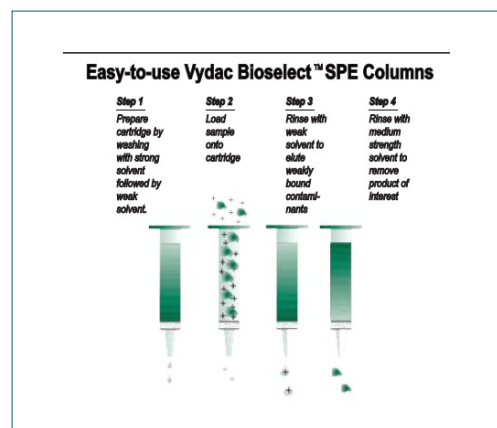


Vydac BioSelect® SPE columns are disposable sample clean-up devices which complement Vydac® HPLC columns. The media are the same high-quality silica bonded with the same chemistries used in Vydac® 300Å TP reversed-phase HPLC columns, giving Vydac BioSelect® SPE columns similar selectivity and recovery.

Applications for Vydac BioSelect® SPE columns :

- Desalting of polypeptide solutions
- Concentration of proteins and peptides
- Removal of HF and cleavage products from cleavage solutions
- Removal of lipids and strongly bound proteins
- Improvement of HPLC resolution by prior removal of early and late eluting by-products or reagents
- Preparation of environmental and food samples

Vydac BioSelect® SPE Columns				
Packing	Column Size	Qty	Old Alltech #	Part.No
Vydac BioSelect®	50mg / 1 mL	50	214SPE1000	LD0014
	100mg / 3 mL	50	214SPE3000	LD0015
Vydac BioSelect®	50mg / 1 mL	50	218SPE1000	LD0016
	100mg / 3 mL	50	218SPE3000	LD0017



A Protocol for Sample Desalting by SPE Prior to Analysis

The SPE step is important for LC-MS analysis. It is not necessary for LC-UV.

Reagents and Apparatus : All reagents are prepared immediately prior to use.
 1% trifluoroacetic acid: Add 100 µL of TFA to 10 mL of water and vortex mix.
 0.1% trifluoroacetic acid: Add 1000 µL of 1% TFA to 10 mL of water and vortex mix.

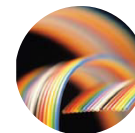
For a 1 mL C18 SPE cartridge (Stock N# LD0016), here is a recommendation for use:

- 1) Condition cartridge with 1.0 mL of acetonitrile.
- 2) Rinse with 0.5 mL of water containing 0.1% TFA. Repeat with another 0.5 mL.
- 3) Load with 0.2 mL peptide sample containing 0.1% to 0.2% TFA for binding.
- 4) Wash with 0.5 mL of water containing 0.1% TFA to remove weakly bound components
- 5) Elute peptide with 0.2 mL of 75:25 (or up to 90:10) acetonitrile:water containing no TFA.
- 6) Evaporate off solvent to approximately 10 µL with a stream of nitrogen (or use a vacuum centrifuge with heating no higher than 30 degrees C).
- 7) Add 190 µL of 5:95 Acetonitrile:Water containing 0.2% formic acid, 0.01% TFA.
- 8) Vortex mix and store samples in refrigerator.

Note: To encourage proper fluid flow through the SPE tube, apply positive pressure to the top of the tube. This may be accomplished by attaching a 1000 µL pipet tip to a nitrogen gas line; then place the pipet tip over the top opening of the SPE tube.



Maxi-Clean™ - Solid Phase Extraction Cartridges



SepaChrom offer the well known brand Maxi-Clean™ which was introduced decades ago by Alltech Associates and recently acquired by S*Pure Ltd. High-Quality of Maxi-Clean™ Cartridges is today recognized among the users of chromatographic techniques.

Maxi-Clean™ Cartridges have the same bed dimensions as 4mL SPE Columns for easy method cross-over. Process a single cartridge by syringe or multiple cartridges by vacuum. Maxi-Clean™ cartridges allow you to stack different cartridges for multi-step extractions. Use top and bottom caps for easy transport or field samples. Here's 10 different ways these cartridges can be used to address difficult extractions and SPE protocols.

Maxi-Clean™ are available with Reverse-Phase, Normal-Phase, Ion-Chromatography and Ion-Exchange sorbents. **SepaChrom** commit to deliver these items from stock at a competitive price in the market.

10 Ways to Use Maxi-Clean™ SPE Cartridges !

1. Bulk Preconditioning on a Vacuum Manifold

Save time and solvents by preconditioning Maxi-Clean™ Cartridges on a vacuum manifold. Double stack for even faster preparation.



6. Easy to Transport and Store

Use top and bottom caps to transport or store a Maxi-Clean™ Cartridge containing your analyte, without risking contamination or dehydration.



2. Direct Substitution into Method Using Standard 4mL Columns

Maxi-Clean™ Cartridges have the same bed dimensions as traditional 3-4mL SPE Columns, for easy substitution into established protocols.



7. Process Individually or in Parallel

Do you only have a few samples to process? Process them with a syringe, instead of setting up a vacuum manifold. Do you have a lot of samples to process? Add an empty reservoir to process them simultaneously on your manifold.



3. Stack 2 Cartridges in series for Complex Extraction

Maxi-Clean™ Cartridges can be stacked to combine 2 phases into 1 extraction step for complex analyses. You can even elute each phase individually, if needed.



8. Use In-Line

The Maxi-Clean™ cartridge's luer connections allow you to use them in-line, to remove contaminants or act as a "guard" cartridge in low-pressure applications.



4. Elute Anywhere

Use a syringe to elute your analyte anywhere: directly into an injection valve, or into other receiver vessels. You can even attach a needle and elute directly through a septa or 96-well sealing mat.



9. Custom-fit to Your Sample Size

By changing reservoir sizes, you can customize a Maxi-Clean™ Cartridge to fit your sample size without changing the bed dimensions.



5. Combine SPE with Filtration by Adding a Filter Tube or Syringe Filter in Series

The Maxi-Clean™ Cartridge's luer connections allow you to add a syringe filter or a fritted SPE tube to remove particulates before your sample enters the SPE bed.

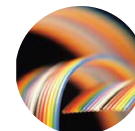


10. Choose from a Wide Range of Chemistries

The Maxi-Clean™ line is offered in many of the same media as the Extract-Clean™ or SEClute™ lines, with over 20 chemistries available.



Maxi-Clean™ - Solid Phase Extraction Cartridges



Reversed-Phase & Normal-Phase SPE Cartridges

- Same bed dimension as 4mL SPE Columns for easy method transfer
- Process a single cartridge by syringe or multiple cartridges by vacuum
- Use top and bottom caps for easy transportation in field and/or laboratories



Maxi-Clean™ Reversed-Phase (Non-Polar) & Normal-Phase (Polar) Sorbent Specification

Packing	Base	% Carbon	End-Capped	Average Particle Size	Pore Size	Feature	Benefits
Standard C18	Silica	6.0%	Yes	50µ	60Å	Low Carbon Load C18	General Purpose Phase
Prevail™ C18	Silica	11.0%	Yes	50µ	60Å	100% Water Weattable	Hydrophilic/hydrophobic retention. Phase remains active even when completely dry. Can skip preconditioning step.
High-Capacity C18	Silica	17.0%	Yes	50µ	60Å	High Carbon Load C18	Maximum Capacity Phase
Large Pore C18	Silica	14.0%	Yes	50µ	150Å	Larger Pore Size	Ideal for Large Molecules >1500MW
Octyl (C8)	Silica	4.5%	Yes	50µ	60Å	Less Hydrophobic than C18	Less Retention of highly hydrophobic compounds. Use when C8 is too retentive
Ethyl (C2)	Silica	5.5%	Yes	50µ	100Å	Short chain functional group is less hydrophobic than C8	Less ritention of highly hydrophobic compounds. Use when C18 is too retentive.
Silica (SI)	Silica	-	-	50µ	60Å	Highly Polar Surface	Most Common Polar Phase
Aminopropyl (NH ₂)	Silica	5.0%	No	50µ	60Å	Polar Phase with Slight Anion Exchange Properties	Ideal for Carbohydrate or generally with analytes containing Hydroxyl functional groups
Cyanopropyl (CN)	Silica	6.0%	Yes	50µ	60Å	Unique selectivity	Can be used in normal-phase or reversed-phase modes.
Florisil® (FL)	Magnesium Silicate	-	-	75-150µ	60Å	Highly Polar Surface	Referenced in many EPA methods. Ideally suited for Pesticides and Metals
Florisil®-PR (FL-PR)	Magnesium Silicate	-	-	75-150µ	60Å	Specifically tested for chlorinated pesticides	Ensure most inert batches suitable for highly active compounds
Alumina Neutral (AL-N)	Aluminium Oxide	-	-	130µ	100Å	Alumina Washed with Neutral Surface	Interacts with Highly Aromatic Compounds and Neutral Hydroxyls

Maxi-Clean™ - Reversed-Phase Cartridges

Packing	Bed Weight	Qty	Old Alltech #	Part.No
Standard C18	300mg	50	20926	LD0055
	300mg	100	20928	LD0056
	500mg	50	5122337	LD0057
	600mg	50	20934	LD0058
	600mg	100	20936	LD0059
	900mg	50	20942	LD0061
	900mg	100	20944	LD0062
Prevail™ C18	300mg	50	605926	LD0179
	500mg	50	605929	LD0180
	900mg	50	605942	LD0181
High-Capacity C18	300mg	50	20945	LD0063
Large Pore C18	300mg	100	22012	LD0124
	600mg	100	22017	LD0125
	900mg	100	220215	LD0126
	900mg	100	220215	LD0126
Octyl (C8)	300mg	50	20950	LD0065
	300mg	100	5122351	LD0066
	600mg	50	20958	LD0068
	900mg	50	20966	LD0071
	900mg	10	5122362	LD0072
Ethyl (C2)	300mg	50	210064	LD0309

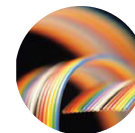
Maxi-Clean™ - Normal-Phase Cartridges

Packing	Bed Weight	Qty	Old Alltech #	Part.No	
Silica (SI)	300mg	50	20974	LD0073	
	300mg	100	20976	LD0075	
	600mg	50	20982	LD0077	
	600mg	100	20984	LD0079	
	900mg	50	20990	LD0081	
	900mg	100	20992	LD0082	
	900mg	100	20992	LD0082	
Aminopropyl (NH ₂)	300mg	50	210044	LD0087	
	300mg	100	210046	LD0088	
	900mg	100	210047	LD0089	
Cyanopropyl (CN)	300mg	50	5178152	LD0310	
	Florisil® (FL)	300mg	50	210054	LD0090
		300mg	100	210056	LD0311
900mg		50	210057	LD0091	
900mg	100	210061	LD0092		
Florisil®-PR (FL-PR)	300mg	50	210074	LD0313	
	300mg	100	210076	LD0312	
	900mg	50	210079	LD0315	
	900mg	100	210075	LD0093	
	Alumina Neutral (AL-N)	300mg	25	210095	LD0094
1800mg		25	210098	LD0095	

Maxi-Clean™ - Drying Cartridges

Packing	Bed Weight	Qty	Old Alltech #	Part.No
Sodium Sulfate	3g	100	219001	LD0118

Maxi-Clean™ - SPE Cartridges - Ion Chromatography

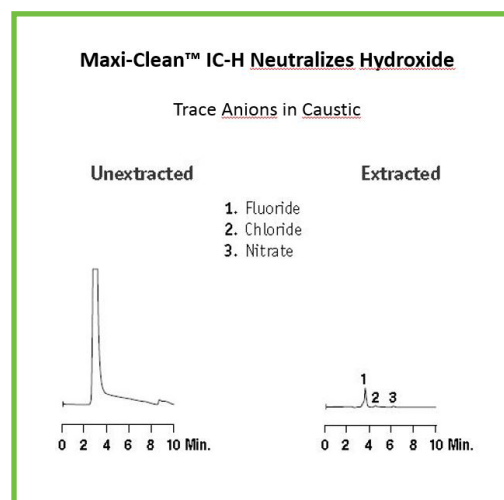


Ion Chromatography SPE Cartridges

- Eliminate Matrix Interferences before Ion Analysis
- 7 Chemistries to Solve a Variety of Specific Problems

Maxi-Clean™ Ion Chromatography Sorbent Specification							
Packing	Base	Counter Ion	Average Particle Size	Molecular Exclusion Limit	Exchange Capacity	Retains	Benefits
IC-OH	Styrene/DVB	Hydroxide	50µ	1000 Daltons	1.0 meq/mL	Anions	Exchanges Anions for Hydroxide. May be used to remove or concentrate Anions from sample and to increase pH of Acidic samples. Remove Cations that form insoluble hydroxide salts
IC-H	Styrene/DVB	Hydronium	50µ	1000 Daltons	2.0 meq/mL	Cations	Exchanges Cations for H ⁺ . May be used to remove or concentrate Cations from sample and to reduce pH of Basic samples.
IC-Ag	Styrene/DVB	Silver	50µ	1000 Daltons	2.0 meq/mL	Chloride Iodide Bromide	Removes excess Halides through formation of Ag-Halide salts
IC-Ba	Styrene/DVB	Barium	50µ	1000 Daltons	2.0 meq/mL	Sulfate	Removes excess Sulfate through formation of BaSO ₄ .
IC-Na	Styrene/DVB	Sodium	50µ	1000 Daltons	2.0 meq/mL	Cations	Exchanges Cations for Na ⁺ . May be used to remove or retain Cations from sample without changing the pH of the sample
IC-Chelate	Styrene/DVB	Sodium	50µ	1000 Daltons	0.4 meq/mL	Polyvalent Metal Ions	Exchanges Transition Metals and Divalent Cations for Na ⁺ . May be used to remove or retain Divalent Cations and Transition Metals from sample.
IC-RP	Polystyrene	-	550µ	-	-	Hydrophobic Components	Remove Surfactants, Organic Acids and other Organic Substances. Inorganic Ions pass through.

Maxi-Clean™ - Ion Chromatography Cartridges				
Packing	Bed Weight	Qty	Old Alltech #	Part.No
IC-OH	0.5mL	50	30262	LD0158
	1.5mL	25	30254	LD0153
IC-H	0.5mL	50	30264	LD0160
	1.5mL	25	30256	LD0154
IC-Ag	0.5mL	50	30266	LD0162
	1.5mL	25	30258	LD0155
IC-Ba	0.5mL	50	30268	LD0163
	1.5mL	25	30261	LD0157
IC-Na	0.5mL	50	30270	LD0164
	1.5mL	25	30263	LD0159
IC-Chelate	0.5mL	50	30250	LD0151
	1.5mL	25	30265	LD0161
IC-RP	0.5mL	50	30260	LD0156
	1.5mL	25	30252	LD0152



Ion Exchange SPE Cartridges

- To Remove or Concentrate Basic or Acid Compounds in your Sample
- SCX & SAX Styrene/Divinylbenzene Sorbents

Maxi-Clean™ - Ion Exchange Cartridges				
Packing	Bed Weight	Qty	Old Alltech #	Part.No
SCX	300mg	50	5178148	LD0314
	600mg	50	21902	LD0120
	600mg	100	21903	LD0121
SAX	600mg	50	21907	LD0122
	600mg	100	21908	LD0123
	900mg	25	5178135	LD0317

Maxi-Clean™ Ion Exchange Sorbent Specification							
Packing	Base	Counter Ion	Ave. Particle Size	Functional Group	Exchange Capacity	Retains	Benefits
SCX	Styrene/DVB	Hydrogen	50µ	Benzene Sulfonic Acid	2.0 meq/mL	Cations, (+) Charged Compounds	Remove/Concentrate Basic Compounds
SAX	Styrene/DVB	Acetate	50µ	Tetramethyl Ammonium	1.0 meq/mL	Anions, (-) Charged Compounds	Remove/Concentrate Acidic Compounds

PuroPhase™ SPE Reverse Phase

A New Complete Platform for Solid Phase Extraction

1. Description

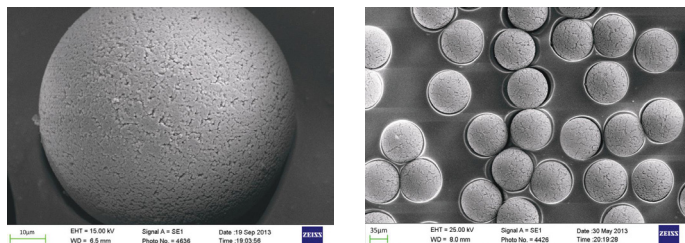
Purilite PuroPhase™ SPE Reverse Phase products are designed to support in the retention and analyses of hydrophobic and hydrophilic molecules. PuroPhase SPE Reverse Phase products are offered in 6 different Chromalite® adsorbent features for various analyte extraction and cleanup needs. All adsorbents are made of robust, synthetic, scalable, reliable, reproducible polymers with different properties in terms of hydrophobicity and porosity.

2. Properties

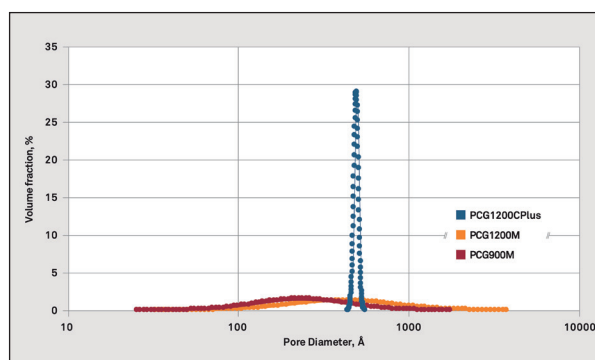
PuroPhase SPE Reverse Phase Product	Adsorbent matrix	Porosity (A)	Exclusion limit (MW)	Surface Area (m2/g)	Functional Group/ Interaction Type
Screening KIT	Assortment of PuroPhase SPE phase adsorbents and tube dimensions ideally suited for method development	Assorted	Assorted	Assorted	Assorted
PCG1200M	Porous polydivinylbenzene adsorbent	250 - 450	96000	>600	None/ Hydrophobic
PCG900M	Porous polydivinylbenzene adsorbent	125 - 250	96000	>600	None/ Hydrophobic
PCG600M	Porous polydivinylbenzene adsorbent	75 - 150	34000	>700	None/ Hydrophobic
70MN	Hyper-crosslinked polystyrene adsorbent	20 - 50	N/A	>1200	None/ Hydrophobic
PCG-1200CPlus	Porous polydivinylbenzene adsorbent	270 - 370	252000	>800	None/ Hydrophobic
PCG-1200MHEMA	Porous adsorbent, copolymer of hydroxyethyl methacrylate/DVB	250 - 540	N/A	>500	None/ Hydrophilic



3. Polymer characteristics – Spherical uniform particle size



4. Polymer characteristic – Controlled porosity



PuroPhase SPE Columns						
Adsorbent Matrix	PuroPhase Media	Bed Mass mg	Volume	Particle Size μ	Qty	Part.No
Assortment of PuroPhase SPE Phase chemistries and tube dimensions ideally suited for method development	PuroPhase SPE Reverse Phase Developmental KIT	230	1mL & 3mL	60 & 200	60pk	LH0019
	Reverse Phase PCG1200M	180	1mL	60	100pk	LH0004
Macroporous Polydivinylbenzene Adsorbent	Reverse Phase PCG1200M	230	3mL	200	50pk	LH0005
		250	6mL	500	30pk	LH0006
		180	1mL	60	100pk	LH0007
	Reverse Phase PCG900M	230	3mL	200	50pk	LH0008
		250	6mL	500	30pk	LH0009
		180	1mL	60	100pk	LH0010
Reverse Phase PCG600M	230	3mL	200	50pk	LH0011	
	250	6mL	500	30pk	LH0012	
	Hyper-crosslink polystyrene adsorbent	Reverse Phase 70MN	180	1mL	60	100pk
230			3mL	200	50pk	LH0014
250			6mL	500	30pk	LH0015
Macroporous Adsorbent, copolymer of N-vinylpyrrolidone/DVB	Reverse Phase PCG1200MHLB	180	1mL	60	100pk	LH0016
		230	3mL	200	50pk	LH0017
		250	6mL	500	30pk	LH0018
Macroporous Adsorbent, copolymer of hydroxymethyl methacrylate/DVB	Reverse Phase PCG1200HEMA	180	1mL	60	100pk	LH0001
		230	3mL	200	50pk	LH0002
		250	6mL	500	30pk	LH0003

Bulk SPE Packing



Are you looking for High-Quality Bulk Packing for Your SPE Columns?
Contact us for a quote !

Bulk SPE Packing Available				
Packing	Porosity	Average Particle Size	Qty	Part.No
Silica (SI)	60Å	50μ	250g	FA0056
Standard C18	60Å	50μ	250g	FA0042
Cyano	60Å	50μ	250g	FA0051
Diol	60Å	50μ	250g	FA0053
Aminopropyl	60Å	50μ	250g	FA0055

Solid Phase Extraction - Accessories

Vacuum Manifold

- 12 position, 16 position and 24 position Vacuum Manifolds available for maximum productivity
- Glass chamber for visula monitoring
- Use standard Male Luer devices

These manifolds permit consistent extraction and filtration results. Multiple sample processing with these manifolds simplifies procedures and saves time. The manifolds consist of a clear glass chamber and lid to which a vacuum is applied to draw a sample through an SPE column, cartridge, or disk.

Adjustable racks placed in the glass vacuum chamber will accommodate a variety of sample collection vessels, including test tubes, autosampler vials, volumetric flasks, and Erlenmeyer flasks. Eluants are deposited directly into the collection vessel of choice via polypropylene, optional stainless steel, or Teflon needles. Drying attachments for the 12 and 24 port manifolds will direct a flow of air or nitrogen into the collection vessels to dry eluants prior to further analysis. Drying attachments can also be connected, via adapters, to SPE columns or cartridges in order to dry the column or cartridge prior to final elusion. Optional disposable solvent resistant polypropylene liners are available for the twelve port manifolds. These waste liners greatly simplify sample preparation, solvent disposal, and clean-up



12 Position Manifold and Accessories			
Description	Qty	Old Alltech #	Part.No
12 Position Manifold	1	210351	LA0033
<i>Replacement parts</i>			
Cover, Gasket & 12 Stopcocks	1	212001	LA0034
Glass Chamber	1	213212	LA0023
Vacuum Gauge, Valve & Glass Chamber	1	212304	LA0035
Collection Rak, Legs, Clips & Post*	1	212518	LA0036
Gaskets	2	212112	LA0037
Plate - 13mm	1		LA0038
Plate - Volumetric Flask	1		LA0039
Plate - 16mm Test Tube	1		LA0040
Plate - Autosampler Vials	1		LA0041
Plate - Dimple	1		LA0042
Plate - Base	1		LA0043
Waste Container	1	210033	LA0045

* Contains 3 support posts, bottom plate, 13&16mm plates, autosampler vial plate, volumetric plate, 12 retention clips.

16 Position Manifold and Accessories			
Description	Qty	Old Alltech #	Part.No
16 Position Manifold	1		LA0046
<i>Replacement parts</i>			
Cover, Gasket & 16 Stopcocks	1		LA0047
Glass Chamber	1		LA0048
Vacuum Gauge, Valve & Glass Chamber	1		LA0050
Collection Rak, Legs, Clips & Post*	1		LA0051
Gaskets	2		LA0052
Plate - 13mm	1		LA0053
Plate - 16mm Test Tube	1		LA0054
Plate - Dimple	1		LA0055
Plate - Base	1		LA0056

* Contains 3 support posts, bottom plate, 13&16mm plates, autosampler vial plate, volumetric plate, 12 retention clips.

24 Position Manifold and Accessories			
Description	Qty	Old Alltech #	Part.No
24 Position Manifold	1	210224	LA0058
<i>Replacement parts</i>			
Cover, Gasket & 24 Stopcocks	1	211224	LA0059
Glass Chamber	1	210124	LA0060
Vacuum Gauge, Valve & Glass Chamber	1	210324	LA0061
Collection Rak, Legs, Clips & Post*	1	210424	LA0062
Gaskets	2	210724	LA0063
Plate - 13mm	1		LA0064
Plate - 16mm Test Tube	1		LA0065
Plate - Dimple	1		LA0066
Plate - Base	1		LA0067

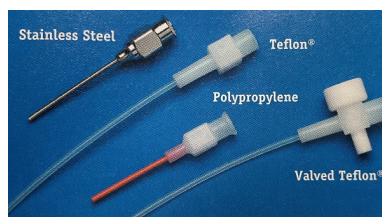
* Contains 3 support posts, bottom plate, dimple plate, 13&16mm plates, 12 retention clips.

Solid Phase Extraction - Accessories

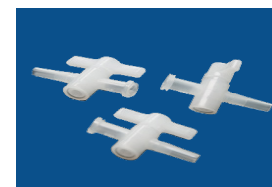
Manifold Accessories and Needles

- Replacement Parts for All Models
- Stainless Steel, Polypropylene and Teflon Needles
- Stopcocks

Manifold Accessories			
Description	Qty	Old Alltech #	Part.No
<i>Drying Attachments</i>			
12 Position Drying Attachemnt	1	212100	LA0020
16 Position Drying Attachemnt	1	212117	LA0021
24 Position Drying Attachemnt	1	212124	LA0022
<i>Stopcocks</i>			
12-16-24 Position Stopcocks	24	212112	LA0024
<i>Needles</i>			
Polypropylene Needles	24	210924	LA0025
Stainless Steel Needles	24	210824	LA0026
Teflon Needles	100	412410	LA0027
Valved Teflon Needle	25	411525	LA0028
<i>Accessories</i>			
Vacuum Gauge & Valve	1	212203	LA0029
Female Luer Fitting	2	212002	LA0030
Male Luer Fitting	2	212120	LA0031
Vacuum Manifold Plug	50	211234	LA0032



Teflon, Polypropylene and SS Needles



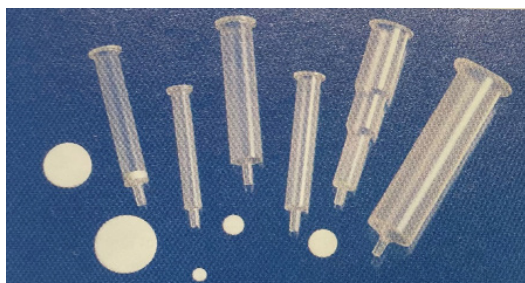
Stopcocks



12 Port Drying Attachment

SPE Empty Column and Frits

- Select Empty Reservoirs and Frits to Pack Your Own Custom SPE Columns



Empty SPE Columns and Frits



Inlet Caps and Plugs

SPE Empty Column and Frits			
Description	Qty	Old Alltech #	Part.No
<i>Empty Polypropylene Columns</i>			
1.5mL	100	210001	LA0003
4.0mL	100	210104	LA0004
8.0mL	100	210208	LA0005
15.0mL	100	210315	LA0001
25.0mL	100	210425	LA0006
75.0mL	100	210575	LA0007
<i>20µ Polyethylene Frits</i>			
For 1.5mL Column	100	211401	LA0008
For 4.0mL Column	100	211404	LA0009
For 8.0mL Column	100	211408	LA0010
For 15.0mL Column	100	211412	LA0002
For 25.0mL Column	100	211416	LA0011
For 75.0mL Column	100	211775	LA0012
<i>Caps & Plugs</i>			
Inlet Caps for 1.5mL	100	222000	LA0013
Inlet Caps for 4.0mL	100	220301	LA0014
Inlet Caps for 8.0mL	100	220600	LA0015
Inlet Caps for 15.0mL	100	221200	LA0017
Inlet Caps for 25.0mL	100	221006	LA0018
Inlet Caps for 75.0mL	100	227503	LA0019
Outlet Caps for all Size	100	220710	LA0016

Other products available from SepaChrom

HPLC

HPLC Silica Based Columns for Routine Analysis

HPLC & UHPLC Silica Based Columns for Small Molecules Separation

HPLC Silica Based Columns for Large Molecules Separation

HPLC Silica Based Columns for Traditional Chinese Medicine

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10mm - 50mmID Packed Preparative Columns for Lab Scale Purification packed by SepaChrom

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OEM Packed Preparative Columns

Scale-up Method Development & Custom Packing Service

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Instruments for Flash and Prep Chromatography up to 825mL/min & 400 bar pressure

Integrated ELSD & MS Simple Quad Detector for Flash Purification

TLC Plates and Accessories for Flash Chromatography

A Complete Range of Flash Columns for All Existing Flash Instruments

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SEClute™, Extract-Clean™, Maxi-Clean™ SPE Cartridges for Pharma, Environmental, Food&Beverage Applications.

PuroPhase™ Polymer Base SPE Cartridges for Clinical & Forensic Applications.

Maxi-Clean™ Ion Chromatography SPE Cartridges

Vydac® - Bioselect SPE Cartridges for Biological Samples

Accessories for SPE & Syringe Filters

OTHER INSTRUMENTS

SepaChrom Hydrogen, Nitrogen and Air Generators for GC

SepaChrom Nitrogen Generators for LC-MS

Automated Sample Evaporators for Lab Scale Purification

Interchim Advion CMS Compact Mass Spectrometer Detector

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