

Agilent SampliQ SPE Products for Sample Preparation

improve the quality of your analysis.



This flowchart helps you choose the right SampliQ polymer, silica, or other sorbent cartridges for routine applications that call for consistent results with higher sample volumes and lower detection limits.

Selection of Agilent SampliQ SPE Mode and Phase

Solubility	Organic Sample MW < 2000											
	Water-soluble			Organic solvent-soluble								
Molecular Character	Ionic			Non-ionic (ion-paired)			Soluble in polar solvent: MeOH (methanol), ACN (acetonitrile), THF (tetrahydrofuran)		Soluble in moderately polar solvent: EtOAc (Ethyl Acetate), CH ₂ Cl ₂ (methylene chloride), Et ₂ O (diethyl ether)		Soluble in non-polar solvent: C ₅ (n-pentane), C ₆ (n-hexane) and iC ₈ (iso-octane)	
Stationary Phase	Cationic	Anionic	Polar	Moderately Polar	Non-polar	Polar	Moderately Polar	Non-polar				
Mode	CEX Cation Exchange	AEX Anion Exchange	n-BPC Normal Bonded Phase Chromatography	LSC Liquid-Solid Chromatography	RPC Reversed Phase Chromatography	n-BPC Normal Bonded Phase Chromatography	LSC Liquid-Solid Chromatography	RPC Reversed Phase Chromatography				
Phases: Polymers	SCX Strong Cation Exchange	SAX Strong Anion Exchange			OPT, DVB, PS-DVB			OPT, DVB, PS-DVB				
Phases: Silica-based	Si-SCX, Si-SAX, Si-SCX (mixed mode)	Si-SAX, Amino (WAX)	Cyano, Diol, Amino	Silica	C18, C18EC, C8, C2, Phenyl		Cyano, Diol, Amino	Silica	C18, C18EC, C8, C2, Phenyl			
Phases: Non-Silica-based			Florisil PR, Alumina A, Alumina B, Alumina N, Carbon					Florisil PR, Alumina A, Alumina B, Alumina N, Carbon				
Phases: Specialty	EVIDEX for drugs of abuse testing											

Cross Reference of Comparable Phases by Manufacturer

Different chemistries and manufacturing processes create sorbents that exhibit differences in selectivity, so there is no universal equivalent for every application. However, the performance of products can be similar in many applications. This table provides suggestions for using Agilent SampliQ products in comparison to products from other manufacturers.

If you are using...	Try this Agilent SampliQ product...
Polymers	
Bond-Elut Plexa, Oasis HLB, Strata X	SampliQ OPT
Bond-Elut ENV, Strata SDB-L, Supelclean ENVI-Chrom P	SampliQ PS-DVB
Bond-Elut Plexa PCX, Oasis MCX, Strata X-C	SampliQ SCX
Oasis MAX	SampliQ SAX
Silica and Other Sorbents	
Reversed Phase	
Bond-Elut C18, Discovery DSC-C18, Sep-Pak tC18, Strata C18-E, Supelclean ENVI-18, Supelclean LC-18	SampliQ C18EC
Bond-Elut C18OH, Sep-Pak C18, Strata C18-U	SampliQ C18
Bond-Elut C8, Sep-Pak C8, Strata C8	SampliQ C8
Bond-Elut C2, Sep-Pak tC2	SampliQ C2
Discovery DSC-Ph, Strata Phenyl (PH), Supelclean LC-Ph	SampliQ Phenyl
Mixed Mode	
Bond-Elut Certify-I, Strata Screen-C	SampliQ Evidex
Normal Phase (Polar)	
Bond-Elut SI, Discovery DSC-SI, Sep-Pak Silica, Strata Si-1, Bond-Elut SI, Discovery DSC-SI, Sep-Pak Silica, Strata Si-1	SampliQ Silica
Bond-Elut FL, Sep-Pak Florisil, Strata FL-PR, Supelclean LC Florisil, Supelclean ENVI Florisil	SampliQ Florisil PR
Bond-Elut NH2, Discovery DSC-NH2, Sep-Pak Amino Propyl, Strata NH2, Supelclean LC-NH2	SampliQ Amino
Bond-Elut 2OH, Discovery DSC-Diol, Supelclean LC-Diol	SampliQ Diol
Bond-Elut CN-U, Discovery DSC-CN, Sep-Pak Cyano Propyl, Strata CN, Supelclean LC-CN	SampliQ Cyano
Bond-Elut AL-A,B,N, Sep-Pak Alumina A, B, N, Supelclean LC-Alumina A,B,N	SampliQ Alumina A, B, N
Ion Exchange	
Bond-Elut SAX, Discovery DSC-SAX, LC-SAX, Sep-Pak AccellPlus OMA, Strata SAX	SampliQ Si-SAX
Bond-Elut SCX, Discovery DSC-SCX, Sep-Pak AccellPlus SCX, Strata SCX, Supelclean LC-SCX	SampliQ Si-SCX
Other	
Supelclean ENVI-Carb	SampliQ Carbon

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Agilent SampliQ Bulk Sorbents

SampliQ sorbents are available in bulk, along with a selection of reservoirs and frits, for those who wish to pack their own SPE cartridges or to perform "flash" chromatography.

To investigate a new sample preparation technique, see QuEChERS.

SampliQ Bulk Sorbents

Description	Unit	Part No.
C18EC	25 g bottle	5982-1382
C18	25 g bottle	5982-1182
C8 Octyl	25 g bottle	5982-1082
Carbon	25 g bottle	55982-4482
Phenyl	25 g bottle	5982-1582
Silica	25 g bottle	55982-2282
Amino (NH ₂)	25 g bottle	5982-1882
Si-SAX	25 g bottle	5982-2082
Alumina A (acidic)	25 g bottle	5982-4082
Alumina B (basic)	25 g bottle	5982-4182
Alumina N (neutral)	25 g bottle	5982-4282
Florisil PR	25 g bottle	5982-4382

Agilent SampliQ Empty Reservoirs and Frits

Empty reservoirs and separate frits are available if you would like to prepare your own solid phase extraction cartridges. By purchasing bulk SPE sorbents, you can pack larger or different weights of sorbent, mixed phases or any combination that you desire. The larger volume reservoirs can be used for low pressure or flash chromatography.

SampliQ Empty Reservoirs and Frits

Description	Unit	Part No.
Empty SPE Cartridge, 1 mL	50/pk	5982-9301
Empty SPE Cartridge, 3 mL	50/pk	5982-9302
Empty SPE Cartridge, 6 mL	50/pk	5982-9303
Empty SPE Cartridge, 35 mL	50/pk	5982-9304
Empty SPE Cartridge, 70 mL	50/pk	5982-9305
SPE Frits, 1 mL	100/pk	5982-9306
SPE Frits, 3 mL	100/pk	5982-9307
SPE Frits, 6 mL	100/pk	5982-9308
SPE Frits, 35 mL	100/pk	5982-9309
SPE Frits, 75 mL	100/pk	5982-9310

QuEChERS

These sorbents are available for use with the QuEChERS method, specifically for analyzing pesticide residues in fruits and vegetables. The method was developed by Steven J. Lehotay, a chemist with the US Department of Agriculture, and Michelangelo Anastassiades, from the CVUA laboratory in Stuttgart, Germany. QuEChERS is an acronym for "Quick, Easy, Cheap, Effective, Rugged and Safe." Information about the method can be found at www.quechers.com.

QuEChERS

Description	Unit	Part No.
Magnesium Sulfate	100 g bottle	5982-8082
PSA (Primary Secondary Amine)	25 g bottle	5982-8382
Carbon	25 g bottle	5982-4482
C18	25 g bottle	5982-1182
Si-SAX	25 g bottle	5982-2082



Learn more about SampliQ, and Food Safety Analysis, at Solution Source!

Solution Source for Food Safety is your online resource for easy access to the latest applications, product information, special offers, learning opportunities and upcoming events. Visit Solution Source today at www.agilent.com/chem/ssfood

For more information, visit www.agilent.com/chem/SampliQ

Manifolds and Accessories

Agilent manifolds and accessories complement the quality of SampliQ sorbents. Flexible configurations and availability as complete assemblies or individual components mean that the user has the necessary capability at any stage from method development to high-throughput operation.

Vacuum Manifold Processing Stations

Vacuum Manifold Assemblies

Description	Part No.
12-port vacuum extraction manifold assembly Includes rack for 16 x 100 mm tubes	5982-9110
20-port vacuum extraction manifold assembly Includes rack for 16 x 100 mm tubes	5982-9120

Replacement Parts for Vacuum Manifolds

Description	Part No.
Common Supplies	
Manifold ball ring/vacuum quick release	5982-9106
Manifold exit valve replacement kit	5982-9107
Manifold vacuum gauge assembly with valve	5982-9108

12-Port Vacuum Manifolds	
White cover for 12-port manifold	5982-9111
Sealing gasket for 12-port manifold	5982-9112
Glass chamber for 12-port manifold	5982-9113
12-port rack for 13 x 75 mm tubes	5982-9114
12-port rack for 13 x 100 mm tubes	5982-9115
12-port rack for 16 x 75 mm tubes	5982-9116
12-port rack for 16 x 100 mm tubes	5982-9117
20-Port Vacuum Manifolds	
White cover for 20-port manifold	5982-9121
Sealing gasket for 20-port manifold	5982-9122
Glass chamber for 20-port manifold	5982-9123
20-port rack for 13 x 75 mm tubes	5982-9124
20-port rack for 13 x 100 mm tubes	5982-9125
20-port rack for 16 x 75 mm tubes	5982-9126
20-port rack for 16 x 100 mm tubes	5982-9127

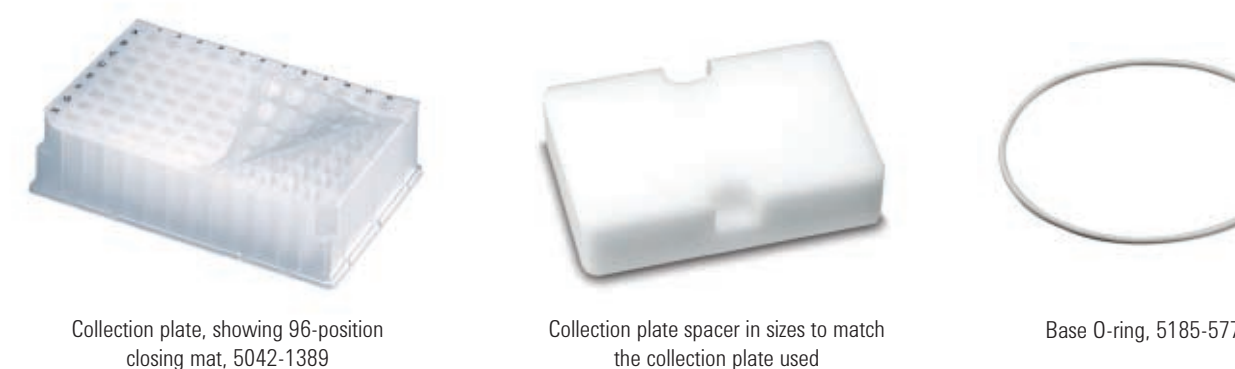


Vacuum Manifolds for 96-Well Plates

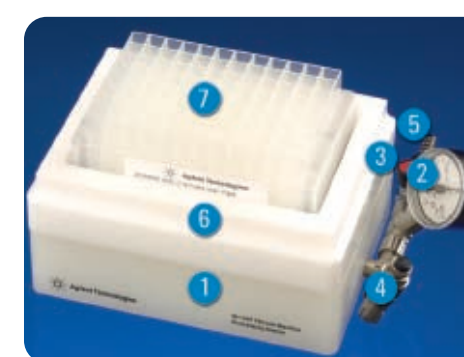
Vacuum Manifolds for 96-Well Plates

Description	Part No.
96-well vacuum manifold assembly Includes base, vacuum gauge, needle valve and fixed lid	5185-5776

Parts and Disposables for 96-Well Plates available



Vacuum manifolds for 96-well plates are designed to allow both convenient method development and high-throughput operation. The base accommodates fixed format 96-well plates with each well loaded with the same sorbent.



- Complete assembly, 5185-5776
1. Base assembly, 5185-5797
 2. Vacuum gauge, 5185-5786
 3. On/off valve, 5185-5785
 4. Needle valve, 5185-5783
 5. Vacuum outlet, 5185-5784
 6. Lid for fixed well manifold, 5185-5798
 7. Fixed 96-well plate, available in various sizes to meet your needs.