



SAMPLING & SAMPLE PREPARATION CATALOG

Solid Phase Extraction, High-Throughput SPE,
Passive sampling, QuEChERS, SLE and
associated products



EXAMPLES OF SPE APPLICATIONS

	SPE product- ANALYTES	SPE product- ANALYTES	MATRICES	PAGE
Mycotoxins	Single Mycotoxin			
	Patulin	AFFINIMIP® SPE Patulin	All Apple-based products (Juice, puree, concentrate...)	22
	Zearalenone	AFFINIMIP® SPE Zearalenone	Maize, Wheat, Cereal-based baby food, Rice, Edible corn oil	27
	Ochratoxin A	AFFINIMIP® SPE Ochratoxin A	Wheat, Maize, Pepper, Paprika, Red and White Wine	25
	Deoxynivalenol (DON)	AFFINIMIP® SPE Deoxynivalenol	Wheat, Maize, Oat	26
	Multimycotoxins			
	Aflatoxins, Ochratoxin A, HT-2, T-2, Fumonisins, Zearalenone, Deoxynivalenol	AFFINIMIP® SPE Multimyo LCMSMS	Cereals	29
	Fumonisins AND Zearalenone	AFFINIMIP® SPE FumoZON	Maize, Maize-based baby food	28
Endocrine Disruptor	Estrone, 17 α -Estradiol, 17 β -Estradiol, Estriol, 17 α -Ethynilestradiol	AFFINIMIP® SPE Estrogens	Water, Serum, Plasma	35
	Bisphenol A, Bisphenol AP, Bisphenol AF, Bisphenol B, Bisphenol S, Bisphenol F...	AFFINIMIP® SPE Bisphenols	A broad variety of liquid and solid foods	37
	Parabens	AFFINIMIP® SPE Phenolics	Shampoo, cream	40
	Phenolic compounds	AFFINIMIP® SPE Phenolics	Food matrices	40
Drug Residues	Amphetamine, Methamphetamine, MDA, MDMA, MDEA	AFFINIMIP® SPE Amphetamines	Serum, Urine	42
	Zeranol, Zearalanone, α and β Zearalanol, α and β Zearalenol, Resorcyclic acid lactones	AFFINIMIP® SPE Zeranol Residues	Urine, Plasma	39
	Chloramphenicol	AFFINIMIP® SPE Chloramphenicol	Honey, Urine, Shrimp	34
	Tamoxifen	AFFINIMIP® SPE Tamoxifen	Urine	45

See our application notebook for more applications and details...

EXAMPLES OF SPE APPLICATIONS

	SPE product- ANALYTES	SPE product- ANALYTES	MATRICES	PAGE
Antibiotics and Drugs residues	Nicotine, Procainamide	AttractSPE™ HLB	Urine	50
	Caffeine	AttractSPE™ HLB	Urine, Water	50
	Propranolol	AttractSPE™ HLB	Urine, Water	50
	Tetracyclines - Tetracycline, Oxytetracycline, Chlortetacycline, Doxycycline	AFFINIMIP® SPE Tetracyclines	Milk	33
	Sulfonamides – Sulfadimethoxine , Sulfathoxypyridazine...	AttractSPE™ SCX	Milk	54
	Caffeine, Acetaminophen, Diclofenac, Ibuprofen, Ketoprofen, Naproxen, Carbamazepine	AttractSPE™ HLB	Waste water, water	50
	Antibacterial Aminoglycosides - Streptomycin, Dihydrostreptomycin,...	AttractSPE™ HLB	Tissue, Milk	50
	Antibiotics – Quinolones, Macrolides, Lincosamides, Sulfonamides, Penicillins, Cephalosporine, Pleuromutilins, Diamino pyrimidine derivatives	AttractSPE™ HLB	Tissue, Milk	50
	NSAID (Non Steroidal Anti inflammatory drug) - Salicylic acid, Phenylbutazone, Flunixin, Tolfenamic acid, Meloxicam, Desoximethasome (IS), Ketoprofen	AttractSPE™ HLB	Tissue	50
	Penicillin based antibacterials - Ampicillin, Amoxicillin...	AttractSPE™ HLB	Tissue	50
	Glucocorticoids - Cortisone, Corticosterone, Aldosterone, Betamethasone, Dexamethasone, Flumethasone, Prednisone, Prednisolone, Methylprednisolone	AttractSPE™ HLB	Tissue	50
	Erythromycin and Clindamycin	AttractSPE™ HLB	Tissue	50
	Praziquantel and Tiamulin	AttractSPE™ HLB	Tissue	50
	Cephalexin	AttractSPE™ HLB	Fish	50
	Quinoxaline-2 -carboxylic acid and 3-methyl quinoxaline-2-carboxylic acid	AttractSPE™ SAX	Muscle, Liver, Kidneys	53
	Vancomycin	AttractSPE™ SCX	Fish	54
	Valnemulin and Tiamulin	AttractSPE™ HLB	Fish	50
	Phenolic compounds	AFFINIMIP® SPE Phenolics	biological matrices	40

See our application notebook for more applications and details...

EXAMPLES OF SPE APPLICATIONS

	SPE product- ANALYTES	SPE product- ANALYTES	MATRICES	PAGE	
Pesticides - Herbicides	Glyphosate, AMPA	AFFINIMIP® SPE Glyphosate – AMPA	Waters	30	
	Aminopyralid, Clopyralid, Picloram	AFFINIMIP® SPE Picolinic Herbicides	Water, Compost, Soil	31	
	16 common pesticides - Linuron, Iprodione, Desyisopropylatrazine, Desethylatrazine, Aldocarb, Simazine, Carbofuran, Metalaxyl, Atrazin, 2, 4-D, Metazachlor, Dicloran, Phenmedipham, Procymidone, Fenitrothion, Vinclozolin	AttractSPE™ HLB	Water	50	
	Triazine Herbicides - Simazine, Cyanazine, Atrazine...	AttractSPE™ HLB	Water	50	
	Acetamide Herbicides - Metolachlor and metabolites, Alachlor...	AttractSPE™ HLB	Water	50	
	Fungicides - Carbendazim, Thiabendazole	AttractSPE™ SCX	Fruit Juice	54	
	Pesticides by GC-MS : Metamidophos, Dichlorvos, Acephate, Trifluralin, Diazinon, Chlorothalonil, Dimethipin, Vinclozoline, Methyl parathion, Methyl primophos, Triadimenol-1, DDE, Cypermethrin-3, Difenoconazole-1, Imibenconazole, Tebuthiuron, Bromacil...	AttractSPE™ Carbon/PSA	Food matrices	65	
PAHs	Hydroxylated Polycyclic Aromatic Hydrocarbons - 2-Naphtol, 2-Hydroxyfluorene, 9-Phenanthrol...	AFFINIMIP® SPE Phenolics	Contaminated soils	40	
	Polycyclic Aromatic Hydrocarbons (PAH)		AFFINIMIP® SPE PAHs	Fats and oil	32
			AttractSPE™ HLB	Waste water	50
			SilactSPE™ CN/SiOH	soil	66
Phenolics	Guaïacol	AFFINIMIP® SPE Phenolics	Wines, water	40	
	Carnosic acid	AFFINIMIP® SPE Phenolics	Meat, water	40	
	Hydroquinone	AFFINIMIP® SPE Phenolics	Water	40	

See our application notebook for more applications and details...

EXAMPLES OF SPE APPLICATIONS

	SPE product- ANALYTES	SPE product- ANALYTES	MATRICES	PAGE
Removal of compounds	Transitions metals ions	AttractSPE™ IDA	Aqueous solution	66
	Removal of anionic contaminants and neutralization of highly acidic samples	AttractSPE™ SAX-HCO3	Aqueous solutions	67
	Removal of alkaline earth and neutralization of basic samples	AttractSPE™ PS-H	Aqueous solutions	67
	Removal of Halides ions (chloride, iodide, bromide)	AttractSPE™ PS-Ag	Aqueous solutions	68
	Removal of sulfate ions	AttractSPE™ PS-Ba	Aqueous solutions	68
	Removal of WATER	SilactSPE™ Dry		64
Biological application	Removal of phospholipids	AttractSPE™ LipRem	plasma	74
	Removal of precipitated proteins	SilactSPE™ Double fritted & Single fritted	Aqueous solutions	74
	Supported liquid extraction	SilactSPE™ SLE	Aqueous solutions	75
	NNAL	AFFINIMIP® NNAL SPE	Urine	41
	Dopamine, Noradrenaline, Adrenalin, ...	AFFINIMIP® SPE Catecholamines	Plasma, Serum	43
	Metanephrine, Normetanephrine and 3-Methoxytyramine, ...	AFFINIMIP® SPE Metanephries	Plasma, Serum	44
Miscellaneous	Melamine	AttractSPE™ SCX	Milk, food	54
	Cyanuric acid	AttractSPE™ SAX	Milk	53
	ARTIFICIAL SWEETENERS - Acesulfame, Aspartame, Cyclamate, Neohespiridine dihydrochalcone, Saccharin, Sucralose	AttractSPE™ HLB	Water	50
	COCAINE AND MAIN METABOLITES - Cocaine, benzoylecgonine and ecgonine methyl ester	AttractSPE™ HLB	Waste water	50
	Hydrocarbons in water (ISO9377-4)	SilactSPE™ Na ₂ SO ₄ / Florisil	water	64

See our application notebook for more applications and details...

AttractSPE™ POLYMERIC-BASED SPE

SilactSPE™ INORGANIC-BASED SPE



Be selective



Food / Feed Safety



Environment



Cosmetics



Pharmaceutical
R&D

A very large range of SPE sorbents

SilactSPE™ products are inorganic based sorbents SPE cartridges mainly alumina or modified silica.

SilactSPE™ Silica or alumina - based SPE cartridges are silica- or alumina based phases and offer a broad range of chemically modified silica or alumina. This chemistry goes from very polar sorbent (bare silica) to hydrophobic sorbent (end-capped saturated hydrocarbon modified silica) passing through intermediate polarity (for instance, amino modified silica). SilactSPE products are Silica-based and alumina-based sorbents available in different formats including SPE cartridges and 48- & 96-well plates, with different sorbents, and in bed weights up to 10 grams.

Reversed phase based silica

C8
moderately hydrophobic

Phenyl
moderately hydrophobic

C18
Strongly hydrophobic

More polar Silica based phase

SiWCX
Weak cation exchanger

SiSAX
Strong anion exchanger

Cyano
Cyano propyl
Polar phase

SiSCX
Strong cation exchanger

Amino (SiWAX)
Weak anion exchanger

PSA
primary
secondary
amine

Normal phase

Silica
Very polar

Alumina (A,
B, N)
Highly active

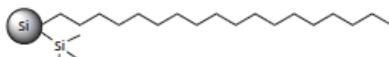
Florisil
polar –highly active – weakly basic

SilactSPE™ C18 (end capped) & SilactSPE™ C18NEC (not end capped)

Strongly hydrophobic and non-polar sorbent

It was recently developed as an innovative C18 phase characterized by a homogeneous coverage of the silane on the surface.

SilactSPE™ C18 particularly suits for the extraction of acidic, neutral and basic compounds from aqueous solutions, various organic compounds from water, and drugs and metabolites from physiological fluids.



SilactSPE™ C18 end capped

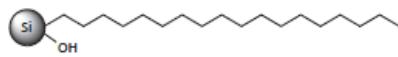
Product Information

Loading : 15-17 % C

Endcapping : Yes for
SilactSPE™ C18,

No for SilactSPE™ C18NEC

Silica type: 60 Å, 500 m²/g,
40-63 µm



SilactSPE™ C18NEC not end capped

Cartridges format, Sorbent amount	#/box	SilactSPE™ C18 (end capped)	SilactSPE™ C18 (not end capped)
1mL, 50mg	100	C18-100.S.1.50	C18nec-100.S.1.50
1mL, 100mg	100	C18-100.S.1.100	C18nec-100.S.1.100
3mL, 200mg	50	C18-50.S.3.200	C18nec-50.S.3.200
3mL, 500mg	50	C18-50.S.3.500	C18nec-50.S.3.500
6mL, 500mg	50	C18-50.S.6.500	C18nec- 50.S.6.500
6mL, 1g	50	C18-50.S.6.1g	C18nec-50.S.6.1g
10mL LRC, 500mg	50	C18-50.LRC.10.500	C18nec-50.LRC.10.500
12mL, 2g	20	C18-20.S.12.2g	C18nec-20.S.12.2g
Reversible 0.7mL, 260mg	25	C18-25.REV.1.260	C18nec-25.REV.1. 360
Reversible 2mL, 1g	25	C18-25.REV.2.1000	C18nec-25.REV.2.1000
96 well plate, 50mg	1	C18-1.96W.50	C18nec--1.96W.50
96 well plate, 100mg	1	C18--1.96W.100	C18nec-1.96W.100

SilactSPE™ C8 & SilactSPE™ PHENYL

SilactSPE™ C8 : Moderately hydrophobic and non-polar sorbent

Sorbent C8 is more selective than **Sorbent C18** for big compounds such as PAH, vitamin D, and oils as well as greasy compounds. It particularly suits for the extraction of extremely non-polar compounds.

Product Information

Loading : 12 % C

Endcapping : Yes

Silica type : 60 Å, 500 m²/g, 40-63 µm

SilactSPE™ Phenyl : Moderately hydrophobic and non-polar sorbent

it particularly suits for the extraction of non-polar compounds with different selectivities through π-π interactions including aromatic compounds and other non-polar phases.

Product Information

Loading : 9 % C

Endcapping : Yes

Silica type : 60 Å, 500 m²/g, 40-63 µm

Cartridges format, Sorbent amount	#/box	SilactSPE™ C8	SilactSPE™ Phenyl
1mL, 50mg	100	C8-100.S.1.50	Phe-100.S.1.50
1mL, 100mg	100	C8-100.S.1.100	Phe-100.S.1.100
3mL, 200mg	50	C8-50.S.3.200	Phe-50.S.3.200
3mL, 500mg	50	C8-50.S.3.500	Phe-50.S.3.500
6mL, 500mg	50	C8-50.S.6.500	Phe-50.S.6.500
6mL, 1g	50	C8-50.S.6.1g	Phe-50.S.6.1g
10mL LRC, 500mg	50	C8-50.LRC.10.500	Phe-50.LRC.10.500
12mL, 2g	20	C8-20.S.12.2g	Phe-20.S.12.2g
Reversible 0.7mL, 260mg	25	C8-25.REV.1.260	Phe-25.REV.1.260
Reversible 2mL, 1g	25	C8-25.REV.2.1000	Phe-25.REV.2.1000
96 well plate, 50mg	1	C8--1.96W.50	Phe--1.96W.50
96 well plate, 100mg	1	C8-1.96W.100	Phe-1.96W.100

SilactSPE™ Silica & SilactSPE™ Cyano

SilactSPE™ Silica : Most polar sorbent

It presents a slightly acidic character and is used to extract various compounds from non-polar solvents through hydrogen bonding.

Product Information

Silica type : 60 Å, 500 m²/g, 40-63 µm

SilactSPE™ Cyano : Moderately polar sorbent

It is used as a normal phase (less polar compared to silica). It particularly suits for the extraction of acidic, basic and neutral compounds from aqueous solutions. It is also used as a reversed-phase (less hydrophobic than C8 and C18).

Product Information

Loading : 7 % C

Endcapping : Yes

Silica type : 60 Å, 500 m²/g, 40-63 µm

Cartridges format, Sorbent amount	#/box	SilactSPE™ Silica	SilactSPE™ Cyano
1mL, 50mg	100	Si-100.S.1.50	CN-100.S.1.50
1mL, 100mg	100	Si-100.S.1.100	CN-100.S.1.100
3mL, 200mg	50	Si-50.S.3.200	CN-50.S.3.200
3mL, 500mg	50	Si-50.S.3.500	CN-50.S.3.500
6mL, 500mg	50	Si-50.S.6.500	CN-50.S.6.500
6mL, 1g	50	Si-50.S.6.1g	CN-50.S.6.1g
10mL LRC, 500mg	50	Si-50.LRC.10.500	CN-50.LRC.10.500
12mL, 2g	20	Si-20.S.12.2g	CN-20.S.12.2g
Reversible 0.7mL	25	Si-25.REV.1.240 for 240mg	CN-25.REV.1. 260 for 260mg
Reversible 2mL	25	Si-25.REV.2.900 for 900mg	CN-25.REV.2.1000 for 1000mg
96 well plate, 50mg	1	Si--1.96W.50	CN--1.96W.50
96 well plate, 100mg	1	Si-1.96W.100	CN-1.96W.100

SilactSPE™ Amine (SiWAX) & SilactSPE™ PSA

SilactSPE™ Amine (SiWAX): Weak anion exchanger silica-based sorbent

SilactSPE™ Amino avoids irreversible retention of acidic molecules ($pK_a < 3$) and particularly suits for the separation of peptides, drugs and metabolites from physiological fluids, poly- and monosaccharides and structural isomers.

Product Information

Loading : 1.6 mmol/g

Endcapping : Yes

Silica type : 60 Å, 500 m²/g, 40-63 µm

SilactSPE™ PSA: Weak anion exchanger silica-based sorbent

Less polar sorbent than **SilactSPE™ Amine** used for its replacement with analytes that are too strongly retained on an amine phase.

Product Information

Endcapping : Yes

Silica type : 60 Å, 500 m²/g, 40-63 µm

Cartridges format, Sorbent amount	#/box	SilactSPE™ Amine or SiWAX	SilactSPE™ PSA
1mL, 50mg	100	NH2-100.S.1.50	PSA-100.S.1.50
1mL, 100mg	100	NH2-100.S.1.100	PSA-100.S.1.100
3mL, 200mg	50	NH2-50.S.3.200	PSA-50.S.3.200
3mL, 500mg	50	NH2-50.S.3.500	PSA-50.S.3.500
6mL, 500mg	50	NH2-50.S.6.500	PSA-50.S.6.500
6mL, 1g	50	NH2-50.S.6.1g	PSA-50.S.6.1g
10mL LRC, 500mg	50	NH2-50.LRC.10.500	PSA-50.LRC.10.500
12mL, 2g	20	NH2-20.S.12.2g	PSA-20.S.12.2g
Reversible 0.7mL, 260mg	25	NH2-25.REV.1.260	PSA-25.REV.1.260
Reversible 2mL, 1000mg	25	NH2-25.REV.2.1000	PSA-25.REV.2.1000
96 well plate, 50mg	1	NH2-1.96W.50	PSA-1.96W.50
96 well plate, 100mg	1	NH2-1.96W.100	PSA-1.96W.100

SilactSPE™ SiWCX & SilactSPE™ SiSCX

SilactSPE™ SiWCX: Weak cation exchanger silica-based sorbent with carboxylic acid.

SilactSPE™ SiWCX particularly suits to extract strong basic molecules ($pK_a > 9$).

Product Information

Loading : 1.6 mmol/g

Endcapping : Yes

Silica type : 60 Å, 500 m²/g, 40-63 µm

SilactSPE™ SiSCX: Strong cation exchanger silica-based sorbent positively charged with tosic acid moieties.

SilactSPE™ SiSCX particularly suits to extract basic molecules (pK_a 7-10)

Product Information

Loading : 0.8 mmol/g

Endcapping : Yes

Silica type : 60 Å, 500 m²/g, 40-63 µm

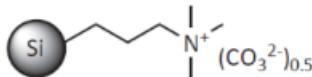
Cartridges format, Sorbent amount	#/box	SilactSPE™ SiWCX	SilactSPE™ SiSCX
1mL, 50mg	100	SiWCX-100.S.1.50	SiSCX-100.S.1.50
1mL, 100mg	100	SiWCX-100.S.1.100	SiSCX-100.S.1.100
3mL, 200mg	50	SiWCX-50.S.3.200	SiSCX-50.S.3.200
3mL, 500mg	50	SiWCX-50.S.3.500	SiSCX-50.S.3.500
6mL, 500mg	50	SiWCX-50.S.6.500	SiSCX-50.S.6.500
6mL, 1g	50	SiWCX-50.S.6.1g	SiSCX-50.S.6.1g
10mL LRC, 500mg	50	SiWCX-50.LRC.10.500	SiSCX-50.LRC.10.500
12mL, 2g	20	SiWCX-20.S.12.2g	SiSCX-20.S.12.2g
Reversible 0.7mL, 260mg	25	SiWCX-25.REV.1.260	SiSCX-25.REV.1.260
Reversible 2mL, 1000mg	25	SiWCX-25.REV.2.1000	SiSCX-25.REV.2.1000
96 well plate, 50mg	1	SiWCX-1.96W.50	SiSCX-1.96W.50
96 well plate, 100mg	1	SiWCX-1.96W.100	SiSCX-1.96W.100

SilactSPE™ SiSAX: Strong anion exchanger silica-based sorbent using trimethyl ammonium moieties.
SilactSPE™ SiSAX particularly suits to extract acidic molecules (pK_a 3-5)

SilactSPE™ Carbonate

General base quencher

SilactSPE™ Carbonate is the silica-bound equivalent of tetramethyl ammonium carbonate and is used as a general base to quench a reaction, free base amines in their ammonium salt form and to scavenge acids, boronic acids and acidic phenols including HOBr.



Product Information

Loading : 1.1 mmol/g

Endcapping : No

Silica type : 60 Å, 500 m²/g, 40-63 µm

Cartridges format, Sorbent amount	#/box	SilactSPE™ SiSAX	SilactSPE™ Carbonate
1mL, 50mg	100	SiSAX-100.S.1.50	CO3-100.S.1.50
1mL, 100mg	100	SiSAX-100.S.1.100	CO3-100.S.1.100
3mL, 200mg	50	SiSAX-50.S.3.200	CO3-50.S.3.200
3mL, 500mg	50	SiSAX-50.S.3.500	CO3-50.S.3.500
6mL, 500mg	50	SiSAX-50.S.6.500	CO3-50.S.6.500
6mL, 1g	50	SiSAX-50.S.6.1g	CO3-50.S.6.1g
10mL LRC, 500mg	50	SiSAX-50.LRC.10.500	CO3-50.LRC.10.500
12mL, 2g	20	SiSAX-20.S.12.2g	CO3-20.S.12.2g
Reversible 0.7mL, 260mg	25	SiSAX-25.REV.1.260	CO3-25.REV.1.260
Reversible 2mL, 1000mg	25	SiSAX-25.REV.2.1000	CO3-25.REV.2.1000
96 well plate, 50mg	1	SiSAX-1.96W.50	CO3-1.96W.50
96 well plate, 100mg	1	SiSAX-1.96W.100	CO3-1.96W.100

SilactSPE™ DAU (DRUG OF ABUSE USE) & AttractSPE™ IDA (METAL RETENTION)

SilactSPE™ DAU particularly suits for basic drugs of abuse determination (Amphetamines, opioides...) in complex matrices such as human urine.

Product Information

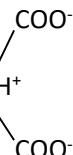
Silica type : 60 Å, 500 m²/g, 40-63 µm

AttractSPE™ IDA : A chelating resin for the extraction of metal ions

AttractSPE™ IDA is a polymer resin containing iminodiacetic acid functional groups which particularly suits for the extraction of transition metal ions (Hg^{2+} , Cu^{2+} , Pb^{2+} , Fe^{2+} ...) and Alkaline earth metals ions in water even in highly concentrated salt solution. A high selectivity towards metal ions is obtained by varying the pH.

Product Information

Particle size: 40 – 75 µm Resin – NH^+
Capacity 0,6meq/g



Cartridges format, Sorbent amount	#/box	SilactSPE™ DAU
1mL, 50mg	100	DAU-100.S.1.50
1mL, 100mg	100	DAU-100.S.1.100
3mL, 200mg	50	DAU-50.S.3.200
3mL, 500mg	50	DAU-50.S.3.500
6mL, 500mg	50	DAU-50.S.6.500
6mL, 1g	50	DAU-50.S.6.1g
10mL LRC, 500mg	50	DAU-50.LRC.10.500
12mL, 2g	20	DAU-20.S.12.2g

Cartridges format, Sorbent amount	#/box	AttractSPE™ IDA
1mL , 30mg	100	IDA-100.S.1.30
3mL, 60mg	25	IDA-25.S.3.60
	50	IDA-50.S.3.60
6mL, 100mg	25	IDA-25.S.6.200
	50	IDA-50.S.6.200
6mL, 500mg	25	IDA-25.S.6.500
	50	IDA-50.S.6.500
96 wells Plate	1	IDA-1.96W.30
Reversible 0.7mL, 30mg	25	IDA-25.REV.1.N10
	50	IDA-50.REV.1.N10
Reversible 0.7mL, 100mg	25	IDA-25.REV.1.F
	50	IDA-50.REV.1.F
Reversible 2mL, 800mg	25	IDA-25.REV.2.F
	50	IDA-50.REV.2.F

SilactSPE™ Alumina-Acidic, Neutral and Basic

Alumina can present either cationic, neutral and acidic character. It is used in a similar fashion as for the SilactSPE™ Silica. The difference is that Alumina is more stable at high pH than silica.

SilactSPE™ Alumina particularly suit for the retention of aromatic compounds, aliphatic amines and compounds containing electronegative functions.

Product Information

Alumina type : 60 Å, 0.9 g/mL, 50-200 µm

Cartridges format, Sorbent amount	#/box	SilactSPE™ Alumina Acidic	SilactSPE™ Alumina Neutral	SilactSPE™ Alumina Basic
1mL, 50mg	100	AluA-100.S.1.50	AluN-100.S.1.50	AluB-100.S.1.50
1mL, 100mg	100	AluA-100.S.1.100	AluN-100.S.1.100	AluB-100.S.1.100
3mL, 200mg	50	AluA-50.S.3.200	AluN-50.S.3.200	AluB-50.S.3.200
3mL, 500mg	50	AluA-50.S.3.500	AluN-50.S.3.500	AluB-50.S.3.500
6mL, 500mg	50	AluA-50.S.6.500	AluN-50.S.6.500	AluB-50.S.6.500
6mL, 1g	50	AluA-50.S.6.1g	AluN-50.S.6.1g	AluB-50.S.6.1g
10mL LRC, 500mg	50	AluA-50.LRC.10.500	AluN-50.LRC.10.500	AluB-50.LRC.10.500
12mL, 2g	20	AluA-20.S.12.2g	AluN-20.S.12.2g	AluB-20.S.12.2g
Reversible 0.7mL, 700mg	25	AluA-25.REV.1.700	AluN-25.REV.1.700	AluB-25.REV.1.700
Reversible 2mL, 2g	25	AluA-25.REV.2.2g	AluN-25.REV.2.2g	AluB-25.REV.2.2g
96 well plate, 50mg	1	AluA-1.96W.50	AluN-1.96W.50	AluB-1.96W.50
96 well plate, 100mg	1	AluA-1.96W.100	AluN-1.96W.100	AluB-1.96W.100

SilactSPE™ Florisil PR, SilactSPE™ Dry & SilactSPE™ Na₂SO₄/Florisil

SilactSPE™ Florisil PR (MgO₃Si) : Polar sorbent

They present a basic character used to extract non-polar to moderately polar compounds from non-polar solvents.

They particularly suit for the retention of chlorinated pesticides, polychlorinated biphenyl (PCB's) and polysaccharides due to the magnesium ion.

Product Information

Florisil PR type : 150-200 µm

Cartridges format, Sorbent amount, #/box	SilactSPE™ Florisil PR
1mL, 50mg, 100/pk	FloPR-100.S.1.50
1mL, 100mg, 100/pk	FloPR-100.S.1.100
3mL, 200mg, 50/pk	FloPR-50.S.3.200
3mL, 500mg, 50/pk	FloPR-50.S.3.500
6mL, 500mg, 50/pk	FloPR-50.S.6.500
6mL, 1g, 50/pk	FloPR-50.S.6.1g
10mL LRC, 500mg, 50/pk	FloPR- 50.LRC.10.500
12mL, 2g, 20/pk	FloPR-20.S.12.2g
Reversible 0.7mL, 300mg, 25/pk	FloPR-25.REV.1.300
Reversible 2mL, 900mg, 25/pk	FloPR-25.REV.2.900
96 well plate, 50mg, 1 unit	FloPR--1.96W.50
96 well plate, 100mg, 1 unit	FloPR-1.96W.100

SilactSPE™ Dry: contains sodium sulfate anhydrous (Na₂SO₄) in reversible cartridges.

Cart. format, Sorbent amount, #/box	SilactSPE™ Dry
Reversible 0.7mL, 800mg, 50/pk	Na2SO4- 50.REV.1.800
Reversible 2mL, 2500mg, 50/pk	Na2SO4- 50.REV.2.2500

SilactSPE™ Na₂SO₄/Florisil contains an upper layer of sodium sulfate anhydrous (Na₂SO₄) to dry the solution and a bottom layer of Florisil for the determination of hydrocarbons in water according to DIN-H-53/ ISO 9377-4.

Cart. format, Sorbent amount	SilactSPE™ Na ₂ SO ₄ / Florisil
6mL PP, 2g+2g, 50/pk	FloNa2SO4- 50.S.6.2g.2g
12mL PP, 3g+3g, 25/pk	FloNa2SO4- 25.S.12.3g.3g

SPE FOR POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)

AFFINIMIP®SPE PAHs

For the cleanup
of PAHs in **FATTY
food and liquid**
such as oil

Molecularly
imprinted
polymer for
PAHs.

SilactSPE™ CN/SiOH

For the cleanup
of PAHs in **SOIL**

A two layer
sorbents with
cyano modified
silica and silica
sorbents

AttractSPE™ HLB

For the cleanup
of PAHs in
WATER

HLB

Product	Vol	Sorbent	25 cartridges/box	50 cartridges/box
SilactSPE™ CN/SiOH	3mL	500mg/1g	CNSiOH-25.S.3.500.1g	CNSiOH- 50.S.3.500.1g
	6mL	500mg/1g	CNSiOH-25.S.6.500.1g	CNSiOH- 50.S.6.500.1g
	6mL glass	500mg/1g	CNSiOH-25.G.6.500.1g	CNSiOH- 50.G.6.500.1g
AFFINIMIP® SPE PAHs	3mL		FS119-02	FS119-03
AttractSPE™ HLB	6mL	200mg	HLB-25.S.6.200	HLB-50.S.6.200

SPE FOR INTERFERENCES REMOVAL

AttractSPE™ PS-Ag

Removal of halide ions (**chloride, bromide, and iodide**) by precipitation

Strong cation exchange sorbent with silver cation as counterion.

AttractSPE™ PS-Ba

Removal of sulfate ions by precipitation

Strong cation exchange sorbent with baryum cation as counterion

SilactPE™ HydroxyApatite

Removal of **chloride, fluoride, lanthanide & carbonate ions**

Hydroxyapatite is a mineral compound of structure $\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$

Cartridges format, Sorbent # /box amount		AttractSPE™ PS-Ag	AttractSPE™ PS-Ba	SilactPE™ HydroxyApatite
1mL, 30mg (50mg for HAp)	100	PSAg-100.S.1.30	PSBa-100.S.1.30	HAp-100.S.1.50
3mL, 60mg (200mg for HAp)	25	PSAg-25.S.3.60	PSBa-25.S.3.60	
	50	PSAg-50.S.3.60	PSBa-50.S.3.60	HAp-50.S.3.200
6mL, 200mg	25	PSAg-25.S.6.200	PSBa-25.S.6.200	-
	50	PSAg-50.S.6.200	PSBa-50.S.6.200	-
6mL, 500mg	25	PSAg-25.S.6.500	PSBa-25.S.6.500	
	50	PSAg-50.S.6.500	PSBa-50.S.6.500	HAp-50.S.6.500
Reversible 0.7mL, 400mg	25	PSAg-25.REV.1.F	PSBa-25.REV.1.F	
	50	PSAg-50.REV.1.F	PSBa-50.REV.1.F	HAp-50.REV.1.F

SPE FOR REMOVAL OF PROTEINS & LIPIDS

AttractSPE™ LipRem

For the removal of phospholipids of plasma sample

AttractSPE™ LipRem is a sorbent used for the removal of phosphorylcholine lipids from the plasma.

Cartridges format, Sorbent amount	#/box	AttractSPE™ LipRem
1mL, 20mg	100	LipRem-100.S.1.20
3mL, 60mg	25	LipRem-25.S.3.50
	50	LipRem-50.S.3.50
6mL, 100mg	25	LipRem-25.S.6.100
	50	LipRem-50.S.6.100
96 well Plate	1	LipRem-1.96W.20
Reversible, 0.7mL, 100mg	25	LipRem-25.REV.1.F
	50	LipRem-50.REV.1.F

SilactSPE™ Double fritted & SilactSPE™ Single fritted

For the removal of proteins after precipitation

SilactSPE™ Double fritted & SilactSPE™ Single fritted are cartridges with respectively one or two 20µm PE frits.

Cartridge volume	SilactSPE™ Double fritted 100 cartridges	SilactSPE™ Single fritted 100 cartridges
1mL	0-100.S.1.2F	0-100.S.1.1F
3mL	0-100.S.3.2F	0-100.S.3.1F
6mL	0-100.S.6.2F	0-100.S.6.1F
15mL	0-100.S.15.2F	0-100.S.15.1F
25mL	0-100.S.25.2F	0-100.S.25.1F
60mL	0-100.S.60.2F	0-100.S.60.1F
96 well plate – 1 unit	0-1.96W.2F	0-1.96W.1F