



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, Procaïnamide	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 , Sulfaethoxypyridazine...	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



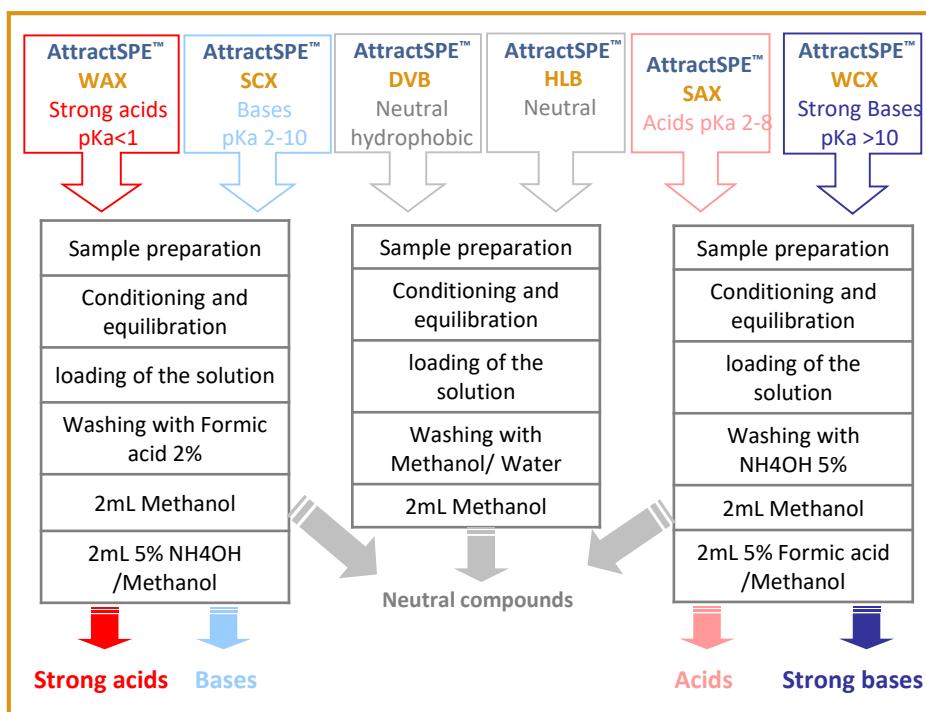
Pharmaceutical
R&D

POLYMERIC - BASED AttractSPE™ CARTRIDGES

AttractSPE™ are based on polymeric sorbents dedicated to sample clean-up for the extraction of compounds from complex matrices. AttractSPE™ cartridges provide the advantages of robustness, simplified method development, wide applicability and are not affected by drying out. The combination of the water-wettable optimised surface chemistry, high surface area and pH stability ensures high reproducible recoveries for a wide range of analytes.

The choice of the suitable AttractSPE™ columns can be done by using the following method:

- Check if a method already exists on the application notebook of our website
- Determination of the nature of the analyte (neutral, acid, base)
- Determination of the pKa
- Choice of the AttractSPE™ columns by using the following chart and application of the general protocol described on the instruction sheet
- Analysis of the recovery yields



AttractSPE™ HLB is an uncharged Hydrophilic and Lipophilic sorbent interacting with both, hydrophilic and hydrophobic interactions. It particularly suits for the extraction of a wide range of analytes (polar, apolar, neutral, acid, basic...)

Product Information

Particle diameter range : 40 µm

Pore size: 70 Å

Surface area: 800 m²/g

Storage : Ambient temperature

Format, amount	#/box	AttractSPE™ HLB	Format, amount	#/box	AttractSPE™ HLB
1mL, 10mg	100	HLB-100.S.1.10	96 well Plate, 10mg	1	HLB-1.96W.10
1mL, 30mg	100	HLB-100.S.1.30	96 well Plate, 30mg	1	HLB-1.96W.30
3mL, 60mg	50	HLB-50.S.3.60	96 well Plate, 60mg	1	HLB-1.96W.60
	100	HLB-100.S.3.60			
6mL, 150mg	25	HLB-25.S.6.150	Reversible 0.7mL, 30mg	25	HLB-25.REV.1.N10
	50	HLB-50.S.6.150			
6mL, 200mg	25	HLB-25.S.6.200	Reversible 0.7mL, 30mg	50	HLB-50.REV.1.N10
	50	HLB-50.S.6.200			
	100	HLB-100.S.6.200			
6mL, 500mg	25	HLB-25.S.6.500	Reversible 0.7mL, 100mg	25	HLB-25.REV.1.F
	50	HLB-50.S.6.500			
	100	HLB-100.S.6.500			
10mL LRC, 60mg	25	HLB-25.LRC.10.60	Reversible 2mL, 225mg	25	HLB-25.REV.2.N10
	50	HLB-50.LRC.10.60			
12mL, 500mg	25	HLB-25.S.12.500	Reversible 2mL, 225mg	50	HLB-50.REV.2.N10
20mL, 1g	25	HLB-25.S.20.1g			

Mixed-mode SPE for extraction of strong acid analytes

AttractSPE™ WAX is a weak anion exchange sorbent interacting with the analytes via a mixed mode retention mechanism, ion exchange with weak basic functional groups and reversed phase. It particularly suits for the extraction of strong acids.

Product Information

Particle diameter range: 40 µm

Pore size: 60 Å

Surface area: 650 m²/g

Ionic capacity : 0.5 meq/g

Storage: Ambient temperature

Format, amount	#/box	AttractSPE™ WAX
1mL, 10mg	100	WAX-100.S.1.10
1mL, 30mg	100	WAX-100.S.1.30
3mL, 60mg	50	WAX-50.S.3.60
	100	WAX-100.S.3.60
6mL, 150mg	25	WAX-25.S.6.150
	50	WAX-50.S.6.150
6mL, 200mg	25	WAX-25.S.6.200
	50	WAX-50.S.6.200
	100	WAX-100.S.6.200
6mL, 500mg	25	WAX-25.S.6.500
	50	WAX-50.S.6.500
	100	WAX-100.S.6.500
10mL LRC, 60mg	25	WAX-25.LRC.10.60
	50	WAX-50.LRC.10.60
12mL, 500mg	25	WAX-25.S.12.500
20mL, 1g	25	WAX-25.S.20.1g

Format, amount	#/box	AttractSPE™ WAX
96 well Plate, 10mg	1	WAX-1.96W.10
96 well Plate, 30mg	1	WAX-1.96W.30
96 well Plate, 60mg	1	WAX-1.96W.60
Reversible 0.7mL, 30mg	25	WAX-25.REV.1.N10
	50	WAX-50.REV.1.N10
Reversible 0.7mL, 100mg	25	WAX-25.REV.1.F
	50	WAX-50.REV.1.F
Reversible 2mL, 225mg	25	WAX-25.REV.2.N10
	50	WAX-50.REV.2.N10

Mixed-mode SPE for extraction of strong basic analytes

AttractSPE™ WCX is a weak cation exchange sorbent interacting with the analytes via a mixed mode retention mechanism, ion exchange with weak acid functional groups and reversed phase. It particularly suits for the extraction of strong bases and quaternary amines.

Format, amount	#/box	AttractSPE™ WCX
1mL, 10mg	100	WCX-100.S.1.10
1mL, 30mg	100	WCX-100.S.1.30
3mL, 60mg	50	WCX-50.S.3.60
	100	WCX-100.S.3.60
6mL, 150mg	25	WCX-25.S.6.150
	50	WCX-50.S.6.150
6mL, 200mg	25	WCX-25.S.6.200
	50	WCX-50.S.6.200
	100	WCX-100.S.6.200
6mL, 500mg	25	WCX-25.S.6.500
	50	WCX-50.S.6.500
	100	WCX-100.S.6.500
10mL LRC, 60mg	25	WCX-25.LRC.10.60
	50	WCX-50.LRC.10.60
12mL, 500mg	25	WCX-25.S.12.500
20mL, 1g	25	WCX-25.S.20.1g

Product Information

Particle diameter range : 40 µm

Pore size: 70 Å

Surface area: 850 m²/g

Ionic capacity: 0.77meq/g

Storage : Ambient temperature

Format, amount	#/box	AttractSPE™ WCX
96 well Plate, 10mg	1	WCX-1.96W.10
96 well Plate, 30mg	1	WCX-1.96W.30
96 well Plate, 60mg	1	WCX-1.96W.60
Reversible 0.7mL, 30mg	25	WCX-25.REV.1.N10
	50	WCX-50.REV.1.N10
Reversible 0.7mL, 100mg	25	WCX-25.REV.1.F
	50	WCX-50.REV.1.F
Reversible 2mL, 225mg	25	WCX-25.REV.2.N10
	50	WCX-50.REV.2.N10

Mixed-mode SPE for extraction of weak acid analytes

AttractSPE™ SAX is a strong anion exchange sorbent interacting with the analytes via a mixed mode retention mechanism, ion exchange with strong basic functional groups and reversed phase. It particularly suits for the extraction of weak acids.

Product Information

Particle diameter range : 40 µm

Pore size: 60 Å

Surface area: 600 m²/g

Ionic capacity: 0.3 meq/g

Storage : Ambient temperature

Format, amount	#/box	AttractSPE™ SAX	Format, amount	#/box	AttractSPE™ SAX
1mL, 10mg	100	SAX-100.S.1.10	96 well Plate, 10mg	1	SAX-1.96W.10
1mL, 30mg	100	SAX-100.S.1.30	96 well Plate, 30mg	1	SAX-1.96W.30
3mL, 60mg	50	SAX-50.S.3.60	96 well Plate, 60mg	1	SAX-1.96W.60
	100	SAX-100.S.3.60	Reversible 0.7mL, 30mg	25	SAX-25.REV.1.N10
6mL, 150mg	25	SAX-25.S.6.150		50	SAX-50.REV.1.N10
	50	SAX-50.S.6.150	Reversible 0.7mL, 100mg	25	SAX-25.REV.1.F
6mL, 200mg	25	SAX-25.S.6.200		50	SAX-50.REV.1.F
	50	SAX-50.S.6.200	Reversible 2mL, 225mg	25	SAX-25.REV.2.N10
	100	SAX-100.S.6.200		50	SAX-50.REV.2.N10
6mL, 500mg	25	SAX-25.S.6.500			
	50	SAX-50.S.6.500			
	100	SAX-100.S.6.500			
10mL LRC, 60mg	25	SAX-25.LRC.10.60			
	50	SAX-50.LRC.10.60			
12mL, 500mg	25	SAX-25.S.12.500			
20mL, 1g	25	SAX-25.S.20.1g			

Mixed-mode SPE for extraction of weak basic analytes

AttractSPE™ SCX is a strong cation exchange sorbent interacting with the analytes via a mixed mode retention mechanism, ion exchange with strong acid functional groups and reversed phase. It particularly suits for the extraction of weak bases.

Format, amount	#/box	AttractSPE™ SCX
1mL, 10mg	100	SCX-100.S.1.10
1mL, 30mg	100	SCX-100.S.1.30
3mL, 60mg	50	SCX-50.S.3.60
	100	SCX-100.S.3.60
6mL, 150mg	25	SCX-25.S.6.150
	50	SCX-50.S.6.150
6mL, 200mg	25	SCX-25.S.6.200
	50	SCX-50.S.6.200
	100	SCX-100.S.6.200
6mL, 500mg	25	SCX-25.S.6.500
	50	SCX-50.S.6.500
	100	SCX-100.S.6.500
10mL LRC, 60mg	25	SCX-25.LRC.10.60
	50	SCX-50.LRC.10.60
12mL, 500mg	25	SCX-25.S.12.500
20mL, 1g	25	SCX-25.S.20.1g

Product Information

Particle diameter range : 40 µm

Pore size: 60 Å

Surface area: 600 m²/g

Ionic capacity: 1meq/g

Storage : Ambient temperature

Format, amount	#/box	AttractSPE™ SCX
96 well Plate, 10mg	1	SCX-1.96W.10
96 well Plate, 30mg	1	SCX-1.96W.30
96 well Plate, 60mg	1	SCX-1.96W.60
Reversible 0.7mL, 30mg	25	SCX-25.REV.1.N10
	50	SCX-50.REV.1.N10
Reversible 0.7mL, 100mg	25	SCX-25.REV.1.F
	50	SCX-50.REV.1.F
Reversible 2mL, 225mg	25	SCX-25.REV.2.N10
	50	SCX-50.REV.2.N10

Reversed phase SPE for extraction of hydrophobic analytes

AttractSPE™ DVB is a polystyrene-divinylbenzene copolymer presenting a high hydrophobicity used as a reversed-phase. It particularly suits for the extraction of hydrophobic analytes.

Product Information

Particle diameter range : 40 µm

Pore size: 60 Å

Surface area: 600 m²/g

Storage : Ambient temperature

Format, amount	#/box	AttractSPE™ DVB
1mL, 10mg	100	DVB-100.S.1.10
1mL, 30mg	100	DVB-100.S.1.30
3mL, 60mg	50	DVB-50.S.3.60
	100	DVB-100.S.3.60
6mL, 150mg	25	DVB-25.S.6.150
	50	DVB-50.S.6.150
6mL, 200mg	25	DVB-25.S.6.200
	50	DVB-50.S.6.200
	100	DVB-100.S.6.200
6mL, 500mg	25	DVB-25.S.6.500
	50	DVB-50.S.6.500
	100	DVB-100.S.6.500
10mL LRC, 60mg	25	DVB-25.LRC.10.60
	50	DVB-50.LRC.10.60
12mL, 500mg	25	DVB-25.S.12.500
20mL, 1g	25	DVB-25.S.20.1g

Format, amount	#/box	AttractSPE™ DVB
96 well Plate, 10mg	1	DVB-1.96W.10
96 well Plate, 30mg	1	DVB-1.96W.30
96 well Plate, 60mg	1	DVB-1.96W.60
Reversible 0.7mL, 30mg	25	DVB-25.REV.1.N10
	50	DVB-50.REV.1.N10
Reversible 0.7mL, 200mg	25	DVB-25.REV.1.F
	50	DVB-50.REV.1.F
Reversible 2mL, 225mg	25	DVB-25.REV.2.N10
	50	DVB-50.REV.2.N10

AttractSPE™ Carbon

For the extraction of herbicides (EPA method 535)

A Graphitized Carbon Black sorbent. for absorption of pigments in food and small organic residues in water.

AttractSPE™ Carbon/Amine

For the cleanup of pesticides in food matrices prior to GC analysis

A two layer sorbents with Graphitized Black Carbon (GCB) and Aminopropyl modified silica sorbents

AttractSPE™ Carbon/PSA

For the cleanup of pesticides in food matrices prior to GC analysis

A two layer sorbents with Graphitized Black Carbon (GCB) and PSA modified silica sorbents

Product	Vol	Sorbent	25 cartridges/box	50 cartridges/box
AttractSPE™ Carbon	6mL	500mg	Carb-25.S.6.500	Carb-50.S.6.500
AttractSPE™ Carbon/PSA	3mL	250mg/250 mg	CarbPSA-25.S.3.250.250	CarbPSA-50.S.3.250.250
	6mL	500mg/500 mg	CarbPSA-25.S.6.500.500	CarbPSA-50.S.6.500.500
AttractSPE™ Carbon/Amine	6mL	500mg/500 mg	CarbNH2-25.S.6.500.500	CarbNH2-50.S.6.500.500

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™ SAX-HCO₃

For the removal of anionic contaminants and neutralization of acidic samples

AttractSPE™ SAX-HCO₃ is a strong anion exchange sorbent with hydrogenocarbonate anion as counterion. It is used for the removal of anionic contaminants from sample matrices and for the neutralization of highly acidic samples.

Product Information

PS-DVB type: 40 µm, 60 Å, 600 m²/g, 0.3 meq/g

AttractSPE™ PS-H

For the removal of alkaline earth and transition metals ions and to neutralize basic samples.

AttractSPE™ PS-H is a strong cation exchange sorbent in the H form. It is used for the removal of alkaline earth and transition metals ions and to neutralize basic samples.

Cartridges format, Sorbent amount	# /box	AttractSPE™ SAX-HCO ₃	AttractSPE™ PS-H
1mL	100	SAX-HCO ₃ -100.S.1.30	
3mL, 60mg	25	SAX-HCO ₃ -25.S.3.60	PSH-25.S.3.60
	50	SAX-HCO ₃ -50.S.3.60	PSH-50.S.3.60
6mL, 200mg	25	SAX-HCO ₃ -25.S.6.200	PSH-25.S.6.200
	50	SAX-HCO ₃ -50.S.6.200	PSH-50.S.6.200
6mL, 500mg	25	SAX-HCO ₃ -25.S.6.500	PSH-25.S.6.500
	50	SAX-HCO ₃ -50.S.6.500	PSH-50.S.6.500
96 well Plate	1	SAX-HCO ₃ -1.96W.30	PSH-1.96W.30
Reversible 0.7mL, 100mg	25	SAX-HCO ₃ -25.REV.1.F	PSH-25.REV.1.F
	50	SAX-HCO ₃ -50.REV.1.F	PSH-50.REV.1.F
Reversible 2mL, 800mg	25	SAX-HCO ₃ -25.REV.2.F	PSH-25.REV.2.F
	50	SAX-HCO ₃ -50.REV.2.F	PSH-50.REV.2.F

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

AttractSPE™ SLE

Supported Liquid Extraction

AttractSPE™ LipRem

Proteins & lipid Removal

AttractFiltration™

Filtration

Be selective



Food / Feed QC



Environment



Cosmetics



Pharmaceutical
R&D

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

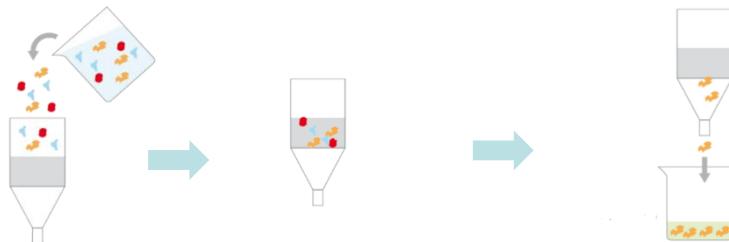
SilactSPE™ Double fritted & SilactSPE™ Single fritted are cartridges with respectively one or two 20µm PE frits.

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

AttractSPE™ SLE FOR SUPPORTED LIQUID EXTRACTION

Supported Liquid Extraction (*a.k.a* SLE) is an alternative to LLE to pass from an aqueous media to an organic media without emulsion formation. This method is also useful to remove phospholipids and proteins from biological fluids.

AttractSPE™ SLE contains an inert sorbent which absorbs water and enables the extraction of analytes with an organic solvent not miscible with water. This product advantageously replaces the phase transfer using liquid - liquid extraction and inherent problems such as emulsion formation. This process is easy to automate., with a limited labour, glassware and organic solvent.



1 – Load the aqueous solution

2- Wait for absorption of water by the sorbent

3- Extract of molecules of interest with organic solvents

AttractSPE™ SLE			
Cartridge volume	Sorbent	25 cartridges/box	50 cartridges/box
1mL	250mg	SLE-25.S.1.250	SLE-50.S.1.250
3mL	500mg	SLE-25.S.3.500	SLE-50.S.3.500
6mL	1g	SLE-25.S.6.1g	SLE-50.S.6.1g
15mL	3g	SLE-25.S.15.3g	SLE-50.S.15.3g
20mL	4.5g	SLE-25.S.20.4g	SLE-50.S.20.4g
70mL	14.5g	SLE-25.S.70.14g	
96 well plate – 1 unit	200mg		SLE-1.96W.200

AttractFiltrat™ FOR MEMBRANE FILTER CARTRIDGE

AttractFiltrat™ is a filtration cartridges based on the use of a membrane to filtrate and remove particles with vacuum manifold (ACC-MAN1) or SPE automates before LC analysis.

A broad range of membranes is available and can enable a broad range of sample filtration. Available formats are 3mL, 6mL and 96 microfilter plate.

AttractFiltrat™ PES with a PES membrane (hydrophilic, low protein binding) for water filtration

AttractFiltrat™ PTFE with a PTFE membrane (hydrophobic, wide chemical compatibility, T resistance) for the filtraton of aggressive solutions

AttractFiltrat™ PVDF with a PVDF membrane (hydrophobic, wide chemical compatibility, T resistance) for the filtraton of aggressive solutions

AttractFiltrat™ RC with a Regenerated cellulose membrane (hydrophilic, solvent resistant, low non specific adsorption) for particle removal in solvents

AttractFiltrat™ Nylon with a Nylon membrane (hydrophilic, high protein, RNA & DNA binding, high surface area) for a wide range of biological preparations

AttractFiltrat™ CA with a Cellulose Acetate membrane (hydrophilic, low protein binding) for protein filtration

	Membrane	Pore size μm	3mL (100/box)	6mL (100/box)	96 filter plate – 1unit
AttractFiltrat™ PES	PES	0.2	PES-100.S.3.2	PES-100.S.6.2	PES-1.96W.2
		0.45	PES-100.S.3.45	PES-100.S.6.45	PES-1.96W.45
AttractFiltrat™ PTFE	PTFE	0.2	PTFE-100.S.3.2	PTFE-100.S.6.2	PTFE-1.96W.2
		0.45	PTFE-100.S.3.45	PTFE-100.S.6.45	PTFE-1.96W.45
AttractFiltrat™ PVDF	PVDF	0.2	PVDF-100.S.3.2	PVDF-100.S.6.2	PVDF-1.96W.2
		0.45	PVDF-100.S.3.45	PVDF-100.S.6.45	PVDF-1.96W.45
AttractFiltrat™ RC	Regenerate d cellulose	0.2	RC-100.S.3.2	RC-100.S.6.2	RC-1..96W.2
		0.45	RC-100.S.3.45	RC-100.S.6.45	RC-1.96W.45
AttractFiltrat™ Nylon	Nylon	0.2	NY-100.S.3.2	NY-100.S.6.2	NY-1.96W.2
		0.45	NY-100.S.3.45	NY-100.S.6.45	NY-1.96W.45
AttractFiltrat™ CA	Cellulose acetate	0.2	CA-100.S.3.2	CA-100.S.6.2	CA-1.96W.2
		0.45	CA-100.S.3.45	CA-100.S.6.45	CA-1.96W.45