

# AttractSPE™

## POLYMERIC-BASED SPE

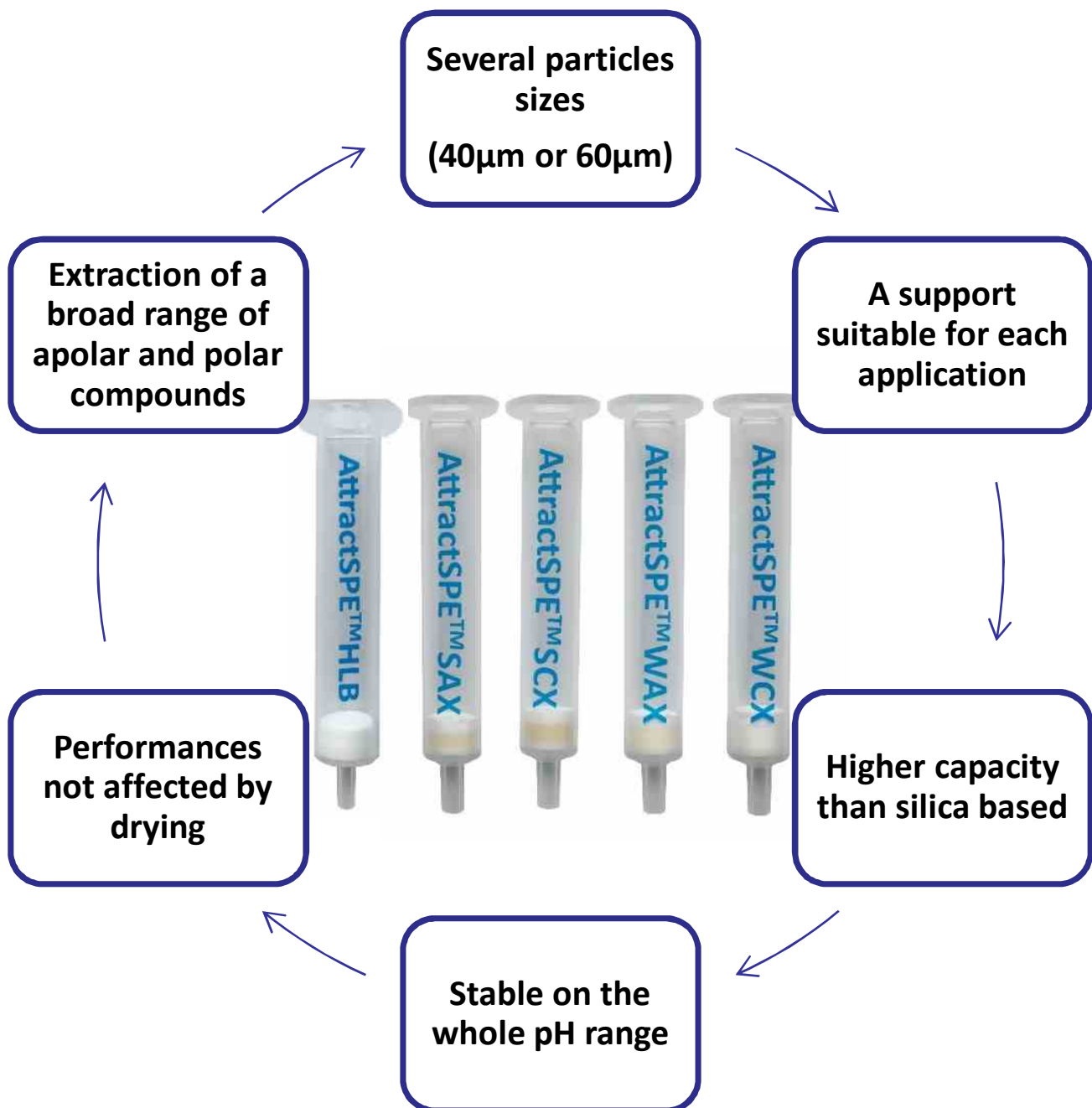


輸入販売：株式会社プラクティカル  
TEL:043-306-1531 FAX:043-306-1541  
mail@practical.jp <http://www.practical.jp>

Order on  
[www.affinsep.com](http://www.affinsep.com)

# AttractSPE™ Cartridges

**A broad range of chemistry and format for your application**

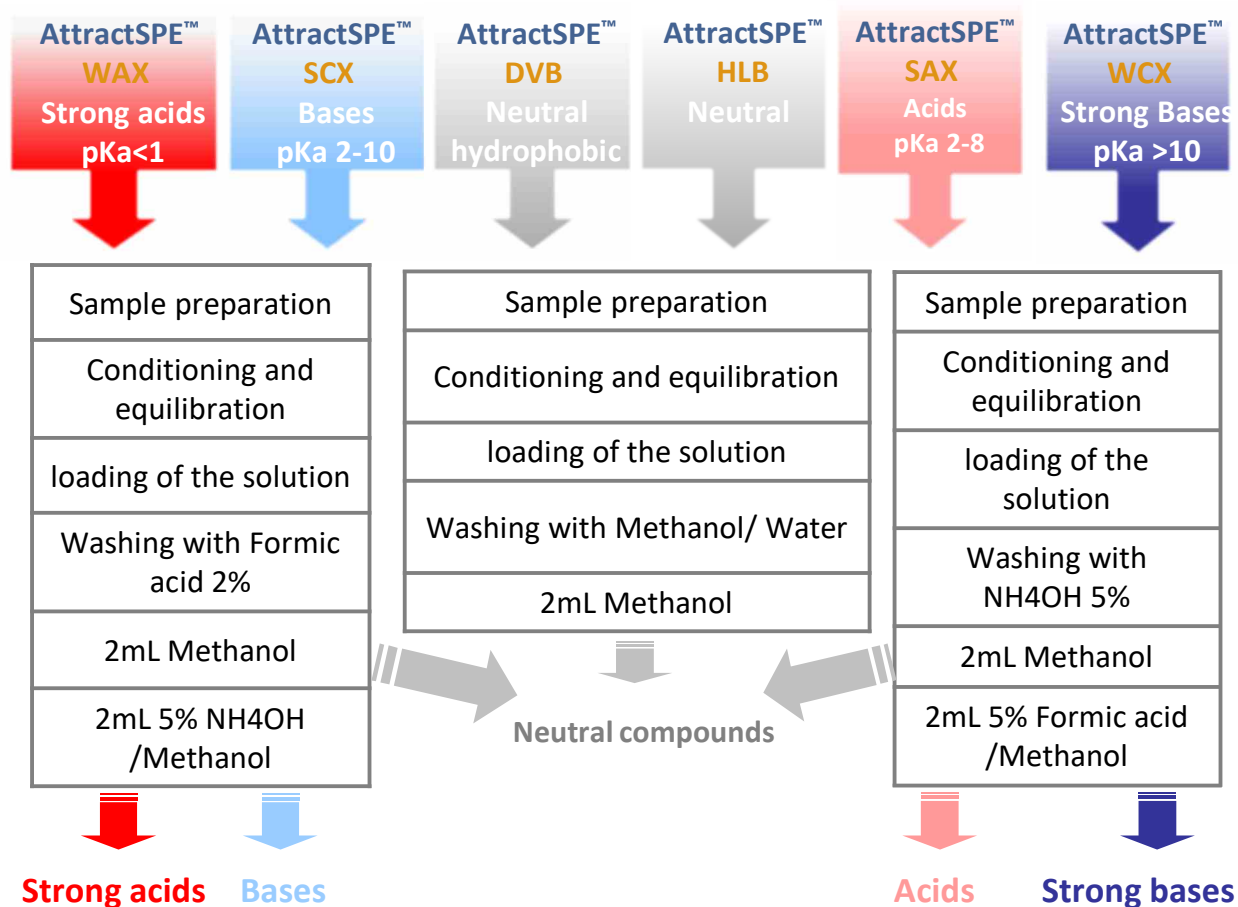


## POLYMERIC - BASED AttractSPE™ CARTRIDGES

**AttractSPE™** are based on polymeric sorbents dedicated to 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. Two particle sizes (40 and 60µm) are available for a more flexible implementation of these products.

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

- “ Check if a method already exists on our application notebook
- “ 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 and 60µm

**Pore size**: 70 Å

**Surface area**: 800 m<sup>2</sup>/g

**Storage** : Ambient temperature

Format, amount	#/box	AttractSPE™ HLB -40µm	AttractSPE™ HLB -80µm
1mL, 10mg, 100/pk	100	HLB-100.S.1.10	
1mL, 30mg	100	HLB-100.S.1.30	HLB-100.S.1.30GP
3mL, 60mg	50	HLB-50.S.3.60	HLB-50.S.3.60GP
3mL, 100mg	50	HLB-50.S.3.100	HLB-50.S.3.100GP
6mL, 150mg	50	HLB-50.S.6.150	HLB-50.S.6.150GP
6mL, 200mg	50	HLB-50.S.6.200	HLB-50.S.6.200GP
6mL, 500mg	50	HLB-50.S.6.500	HLB-50.S.6.500GP
10mL LRC, 60mg	50	HLB-50.LRC.10.60	
12mL, 500mg	25	HLB-25.S.12.500	
12mL, 1g	25	HLB-25.S.12.1000	
12mL, 2g	25		HLB-25.S.12.2000GP
20mL, 1g	25	HLB-25.S.20.1g	
20mL, 2g	25		HLB-25.S.20.2g
96 well Plate, 10mg	1	HLB-1.96W.10	
96 well Plate, 30mg	1	HLB-1.96W.30	HLB-1.96W.30GP
96 well Plate, 60mg	1	HLB-1.96W.60	HLB-1.96W.60GP
Reversible 0.7mL, 30mg	50	HLB-50.REV.1.N10	
Reversible 0.7mL, 100mg	50	HLB-50.REV.1.F	
Reversible 2mL, 225mg	50	HLB-50.REV.2.N10	
Disks cartridges (sorbent is a SPE disk)		See page <b>AttractSPE™ Disks Cartridges</b> High capacity for a minimal elution volume	

## 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 and 60µm

**Pore size:** 60 Å

**Surface area:** 650 m<sup>2</sup>/g

**Ionic capacity :** 0.5 meq/g

**Storage:** Ambient temperature

Format, amount	#/box	AttractSPE™WAX-40µm	AttractSPE™ WAX -80µm
1mL, 10mg, 100/pk	100	WAX-100.S.1.10	
1mL, 30mg	100	WAX-100.S.1.30	WAX-100.S.1.30GP
3mL, 60mg	50	WAX-50.S.3.60	WAX-50.S.3.60GP
3mL, 100mg	50	WAX-50.S.3.100	WAX-50.S.3.100GP
6mL, 150mg	50	WAX-50.S.6.150	WAX-50.S.6.150GP
6mL, 200mg	50	WAX-50.S.6.200	WAX-50.S.6.200GP
6mL, 500mg	50	WAX-50.S.6.500	WAX-50.S.6.500GP
10mL LRC, 60mg	50	WAX-50.LRC.10.60	
12mL, 500mg	25	WAX-25.S.12.500	
12mL, 1g	25	WAX-25.S.12.1000	
12mL, 2g	25		WAX-25.S.12.2000GP
20mL, 1g	25	WAX-25.S.20.1g	
20mL, 2g	25		WAX-25.S.20.2g
96 well Plate, 10mg	1	WAX-1.96W.10	
96 well Plate, 30mg	1	WAX-1.96W.30	WAX-1.96W.30GP
96 well Plate, 60mg	1	WAX-1.96W.60	WAX-1.96W.60GP
Reversible 0.7mL, 30mg	50	WAX-50.REV.1.N10	
Reversible 0.7mL, 100mg	50	WAX-50.REV.1.F	
Reversible 2mL, 225mg	50	WAX-50.REV.2.N10	

**For perfluorinated compounds, please use **AttractSPE™WAX - PFC****

## 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.

## Product Information

**Particle diameter range :** 40 and 60µm

**Pore size:** 70 Å

**Surface area:** 850 m<sup>2</sup>/g

**Ionic capacity:** 0.77meq/g

**Storage :** Ambient temperature

Format, amount	#/box	AttractSPE™ WCX-40µm	AttractSPE™ WCX -80µm
1mL, 10mg, 100/pk	100	WCX-100.S.1.10	
1mL, 30mg	100	WCX-100.S.1.30	WCX-100.S.1.30GP
3mL, 60mg	50	WCX-50.S.3.60	WCX-50.S.3.60GP
3mL, 100mg	50	WCX-50.S.3.100	WCX-50.S.3.100GP
6mL, 150mg	50	WCX-50.S.6.150	WCX-50.S.6.150GP
6mL, 200mg	50	WCX-50.S.6.200	WCX-50.S.6.200GP
6mL, 500mg	50	WCX-50.S.6.500	WCX-50.S.6.500GP
10mL LRC, 60mg	50	WCX-50.LRC.10.60	
12mL, 500mg	25	WCX-25.S.12.500	
12mL, 1g	25	WCX-25.S.12.1000	
12mL, 2g	25		WCX-25.S.12.2000GP
20mL, 1g	25	WCX-25.S.20.1g	
20mL, 2g	25		WCX-25.S.20.2g
96 well Plate, 10mg	1	WCX-1.96W.10	
96 well Plate, 30mg	1	WCX-1.96W.30	WCX-1.96W.30GP
96 well Plate, 60mg	1	WCX-1.96W.60	WCX-1.96W.60GP
Reversible 0.7mL, 30mg	50	WCX-50.REV.1.N10	
Reversible 0.7mL, 100mg	50	WCX-50.REV.1.F	
Reversible 2mL, 225mg	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 and 60µm  
**Pore size**: 60 Å  
**Surface area**: 600 m<sup>2</sup>/g  
**Ionic capacity**: 0.3 meq/g  
**Storage** : Ambient temperature

Format, amount	#/box	AttractSPE™ SAX -40µm	AttractSPE™ SAX -80µm
1mL, 10mg, 100/pk	100	SAX-100.S.1.10	
1mL, 30mg	100	SAX-100.S.1.30	SAX-100.S.1.30GP
3mL, 60mg	50	SAX-50.S.3.60	SAX-50.S.3.60GP
3mL, 100mg	50	SAX-50.S.3.100	SAX-50.S.3.100GP
6mL, 150mg	50	SAX-50.S.6.150	SAX-50.S.6.150GP
6mL, 200mg	50	SAX-50.S.6.200	SAX-50.S.6.200GP
6mL, 500mg	50	SAX-50.S.6.500	SAX-50.S.6.500GP
10mL LRC, 60mg	50	SAX-50.LRC.10.60	
12mL, 500mg	25	SAX-25.S.12.500	
12mL, 1g	25	SAX-25.S.12.1000	
12mL, 2g	25		SAX-25.S.12.2000GP
20mL, 1g	25	SAX-25.S.20.1g	
20mL, 2g	25		SAX-25.S.20.2g
96 well Plate, 10mg	1	SAX-1.96W.10	
96 well Plate, 30mg	1	SAX-1.96W.30	SAX-1.96W.30GP
96 well Plate, 60mg	1	SAX-1.96W.60	SAX-1.96W.60GP
Reversible 0.7mL, 30mg	50	SAX-50.REV.1.N10	
Reversible 0.7mL, 100mg	50	SAX-50.REV.1.F	
Reversible 2mL, 225mg	50	SAX-50.REV.2.N10	
Disks cartridges (sorbent is a SPE disk)		See page <b>AttractSPE™ Disks Cartridges</b> High capacity for a minimal elution volume	

## 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.

## Product Information

**Particle diameter range :** 40 and 60 μm

**Pore size:** 60 Å

**Surface area:** 600 m<sup>2</sup>/g

**Ionic capacity:** 1meq/g

**Storage :** Ambient temperature

Format, amount	#/box	AttractSPE™ SCX -40μm	AttractSPE™ SCX -80μm
1mL, 10mg, 100/pk	100	SCX-100.S.1.10	
1mL, 30mg	100	SCX-100.S.1.30	SCX-100.S.1.30GP
3mL, 60mg	50	SCX-50.S.3.60	SCX-50.S.3.60GP
3mL, 100mg	50	SCX-50.S.3.100	SCX-50.S.3.100GP
6mL, 150mg	50	SCX-50.S.6.150	SCX-50.S.6.150GP
6mL, 200mg	50	SCX-50.S.6.200	SCX-50.S.6.200GP
6mL, 500mg	50	SCX-50.S.6.500	SCX-50.S.6.500GP
10mL LRC, 60mg	50	SCX-50.LRC.10.60	
12mL, 500mg	25	SCX-25.S.12.500	
12mL, 1g	25	SCX-25.S.12.1000	
12mL, 2g	25		SCX-25.S.12.2000GP
20mL, 1g	25	SCX-25.S.20.1g	
20mL, 2g	25		SCX-25.S.20.2g
96 well Plate, 10mg	1	SCX-1.96W.10	
96 well Plate, 30mg	1	SCX-1.96W.30	SCX-1.96W.30GP
96 well Plate, 60mg	1	SCX-1.96W.60	SCX-1.96W.60GP
Reversible 0.7mL, 30mg	50	SCX-50.REV.1.N10	
Reversible 0.7mL, 100mg	50	SCX-50.REV.1.F	
Reversible 2mL, 225mg	50	SCX-50.REV.2.N10	
Disks cartridges (sorbent is a SPE disk)		See page <b>AttractSPE™ Disks Cartridges</b> High capacity for a minimal elution volume	



## 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 and 60µm
- Pore size**: 60 Å
- Surface area**: 600 m<sup>2</sup>/g
- Storage** : Ambient temperature

Format, amount	#/box	AttractSPE™ DVB -40µm	AttractSPE™ DVB -80µm
1mL, 10mg, 100/pk	100	DVB-100.S.1.10	
1mL, 30mg	100	DVB-100.S.1.30	DVB-100.S.1.30GP
3mL, 60mg	50	DVB-50.S.3.60	DVB-50.S.3.60GP
3mL, 100mg	50	DVB-50.S.3.100	DVB-50.S.3.100GP
6mL, 150mg	50	DVB-50.S.6.150	DVB-50.S.6.150GP
6mL, 200mg	50	DVB-50.S.6.200	DVB-50.S.6.200GP
6mL, 500mg	50	DVB-50.S.6.500	DVB-50.S.6.500GP
10mL LRC, 60mg	50	DVB-50.LRC.10.60	
12mL, 500mg	25	DVB-25.S.12.500	
12mL, 1g	25	DVB-25.S.12.1000	
12mL, 2g	25		DVB-25.S.12.2000GP
20mL, 1g	25	DVB-25.S.20.1g	
20mL, 2g	25		DVB-25.S.20.2g
96 well Plate, 10mg	1	DVB-1.96W.10	
96 well Plate, 30mg	1	DVB-1.96W.30	DVB-1.96W.30GP
96 well Plate, 60mg	1	DVB-1.96W.60	DVB-1.96W.60GP
Reversible 0.7mL, 30mg	50	DVB-50.REV.1.N10	
Reversible 0.7mL, 100mg	50	DVB-50.REV.1.F	
Reversible 2mL, 225mg	50	DVB-50.REV.2.N10	
Disks cartridges (sorbent is a SPE disk)		See page <b>AttractSPE™ Disks Cartridges</b> High capacity for a minimal elution volume	