AttractSPE™ Disks

Spinnable, Automatable
High throughput HTS
Micro-SPE for Microextraction

Proteomics, Biomarker discoveries
and Biological applications

Order on
www.affinisep.com
Solid Phase Extraction Solutions

Sample volume

2L - 500mL
- AttractSPE™ Disk
- Passive samplers: POCIS, SPATT, Chemcatcher

200mL – 1mL
- AFFINIMIP® SPE
- AttractSPE™
- SilactSPE™
- Qcleanup™ Quechers
- AttractFIltra™ Filtration
- AttractSPE™ SLE

200µl - 10µl
- AttractSPE™ Disks Tips – Stagetips
- AttractSPE™ Disks Spin SPE
- AttractSPE™ Disks 96 well-plate SPE
- AttractSPE™ Disks SPE cartridges
Sampling and sample preparation are the key steps in trace analysis for analytical chemist. As specialist in this field, AFFINISEP supplies a complete range of solutions based on Solid Phase Extraction (SPE), passive sampling and filtration processes for automated, high-throughput or manual sample preparation.

<table>
<thead>
<tr>
<th>Solid Phase Extraction</th>
<th>SPE Disks</th>
<th>Spin SPE</th>
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<tr>
<td>SPE Tips</td>
<td>Passive samplers (POCIS, SPATT)</td>
<td>96 well Plates SPE</td>
</tr>
<tr>
<td>Filtration columns</td>
<td>Dispersive SPE, Quechers</td>
<td>SLE</td>
</tr>
<tr>
<td>SPE Manifolds and Accessories</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

A multitude of chemical phases and formats are available for various applications. We offer a comprehensive range of SPE to give you all elements to face the increasingly complex and diverse sample preparation challenges by:

- **Simplify data analysis by removing interferences**
- **Increase sensitivity and reliability by enrichment of the analyte**
- **Obtain high and reproducible recovery yields from complex samples**
SPE PROCEDURE STEPS

1- **Sample preparation:** This step is necessary to obtain a loading solution compatible with retention condition in the SPE column. In case of solid matrices, this solution must also extract the compounds of interest from these matrices.

2- **Conditioning:** The SPE cartridges are conditioned with the appropriated solvents to fully soak sorbent and enable further interactions between the analytes and the sorbent.

3- **Loading:** the percolation solution is loaded through the SPE cartridge. The analyte must be retained in the column as well as unwanted compounds.

4- **Washing:** interferences and unwanted compounds are washed off by using appropriate solvents.

5- **Elution:** The desired analyte is extracted from the SPE cartridge.

**Retention Mechanism**

<table>
<thead>
<tr>
<th>Normal phase</th>
<th>Based on polar-polar or dipole-dipole interactions between the analyte and a non organic phase like silica.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reversed phase</td>
<td>Based on non polar- non polar interactions and Van der Waals dispersive forces. The sorbent is hydrophobic like polymeric sorbent modified silica-based sorbent.</td>
</tr>
<tr>
<td>Ion-exchange</td>
<td>Uses electrostatic interaction between a charged sorbent and the ionic analyte. The sorbent is charged with the opposite charge of the analyte.</td>
</tr>
<tr>
<td>Mixed-mode sorbents</td>
<td>Interact through reversed phase and ion exchange retention mechanisms. Available as a polymeric sorbent (AttractSPE™ SAX, WAX, WCX or SCX) or as SilactSPE™.</td>
</tr>
<tr>
<td>Imprinted</td>
<td>Highly selective based on forme and interaction of one molecule or a family of molecules</td>
</tr>
</tbody>
</table>
**Open Cartridge**

Formats: 1mL, 3mL, 6mL, 15mL, 20mL, 60mL

Materials: Polypropylene glass (6mL)

Frits: Polyethylene, PTFE, Glass fiber

Sorbents: powder or disk

*luer compatible*

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**Reversible Cartridge**

Formats: 0.7mL, 2mL

Material: Polypropylene

Frit: Polyethylene

*Luer compatible*

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**On-line SPE Cartridge**

I.D: 2.1 and 4.6mm

Length: 20mm

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**LRC Cartridge**

*Luer compatible*

Formats: 10mL

Material: Polypropylene

Frit: Polyethylene

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**Cartridge for Automates**

Formats: 1mL, 3mL, 6mL

Material: Polypropylene

Frit: Polyethylene

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Order on www.affinisep.com
AVAILABLE

Disks

96 Well-plates
Sorbents: powder or disk

Spin SPE

SPE Tips

Passive Samplers
I.D.: 54mm
O.D.: 90mm

Dispersive SPE

Order on
www.affinisep.com
Proteins, Peptides, DNA, ...

Purification

Desalting

Fractionation

Order on
www.affinisep.com
Solid Phase Extraction Solutions

- AttractSPE™ Disks Tips – Stagetips
- AttractSPE™ Disks Spin SPE
- AttractSPE™ Disks 96 well-plate SPE
- AttractSPE™ Disks SPE cartridges

200µl - 10µl

Order on www.affinisep.com
AttractSPE™ Disks are **thin, dense, soft and uniform membranes** based chromatography for extraction/separation, purification and concentration of analyte molecules.

**Thanks to their unique advantage,** AttractSPE™ Disks are useful for purification of Very Small Sample Volumes in Proteomics, Genomics, Metabolomics, Biomarker discoveries and Biological applications. They are applied for Spinnable, Automatable, High throughput microextraction and nano extraction.

AttractSPE™ Disks offer outstanding sample preparation efficiency and reproducibility of results. Since the diffusion distance between particles is minimized, adsorption is more efficient, and extraction can be accomplished using **very low sorbent mass.**

These properties are giving to AttractSPE™ Disks a significant improvement of mass transfer kinetics compared to traditional packed SPE particles. As a monolith disk, AttractSPE™ Disks are self stand and require no frits for immobilizing the column bed (unlike traditional SPE products) allowing 100% recovery of the original sample volume.

### AttractSPE™ Disk Advantages

- No need to frits or filters
- Reduced dead volume
- Small elution volumes
- High sample recovery
- Reduced time for eluate evaporation
- Higher throughput
- Channeling effects eliminated
- Excellent reproducibility
- Concentration of the sample

Order on www.affinisep.com
AttractSPE™ Disks Technology for microextraction

AttractSPE™ Disks can be used to miniaturized SPE and due to the small operating volume of fluid samples available. So there are available under 4 formats for microextraction:

- **AttractSPE™ Disks Tips – Stagetips**
  
  μSPE column designed by immobilizing an uniform disk inside a pipette tips (Stagetips)

- **AttractSPE™ Disks Spin Columns**
  
  SPE column designed by immobilizing an uniform disk inside a microcentrifuge SPE tube

- **AttractSPE™ Disks 96 well-Plate**
  
  96 SPE well plate designed by immobilizing an uniform disk

- **AttractSPE™ Disks Cartridges**
  
  SPE cartridges designed by immobilizing an uniform disk
AttractSPE™ Disks Technology for microextraction

**AttractSPE™ Disks sorbents**

- A broad variety of sorbents for each required application
- Various formats: disks, spins, 96 SPE plates, cartridges
- One sorbent - several layers for increased capacity
- Several sorbents - stacking for complex applications
- Disks used as filter for application requiring beads

**Different combinations of SPE disks for requested applications**

A: one membrane  
B: Stacking of several membranes layers  
C: membrane used as filter for µm beads

<table>
<thead>
<tr>
<th>Sorbents for SPE Disks for biomolecular applications</th>
<th>Compatible with analytical methods</th>
</tr>
</thead>
</table>
| **C18**                                              | - Desalting of peptides; fractionation of peptides at acidic and neutral pH  
|                                                      | - Drug extraction in biological samples, |
| **C8**                                               | Desalting of large peptides and proteins; Usage as frits to retain beads in a tip |
| **Silica**                                           | Purification of DNA |
| **C4**                                               | Desalting of large peptides and proteins |
| **SDB a.k.a PS-DVB**                                  | Fractionation of peptides at basic pH |
| **HLB: SDB with hydrophilic moieties**                | Fractionation of peptides  
|                                                      | Extraction of small molecules (drugs) in biological fluids |
| **SDB – RPS: Sulfonic modified SDB sorbent**          | Desalting of peptides; fractionation of peptides |
| **SAX : Anion exchange SDB**                         | Fractionation of peptides by salt or pH steps |
| **SCX : Cation exchange SDB**                        | Fractionation of peptides by salt or pH steps |
AttractSPE™Tips are spinnable and automatable Tips for high throughput useful for peptide desalting, proteomics, and biomarker discoveries and biological applications

<table>
<thead>
<tr>
<th>Tip Volume (μL)</th>
<th>Resin Volume (μL)</th>
<th>Resin:</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>•200</td>
<td>•5</td>
<td>•C18 300Å</td>
<td>•Desalting</td>
</tr>
<tr>
<td>•300</td>
<td>•10</td>
<td>•C18 90Å</td>
<td>•PCR</td>
</tr>
<tr>
<td>•500</td>
<td>•12</td>
<td>•C4 300Å</td>
<td>•Genomic Purification</td>
</tr>
<tr>
<td>•1000</td>
<td>•20</td>
<td>•Strong Anion</td>
<td>•Glutathione</td>
</tr>
<tr>
<td>•20000</td>
<td>•40</td>
<td>•Strong Cation</td>
<td>•IMAC</td>
</tr>
<tr>
<td></td>
<td>•80</td>
<td>•Weak Anion</td>
<td>•Plasmid Purification</td>
</tr>
<tr>
<td></td>
<td>•160</td>
<td>•Weak Cation</td>
<td>•...</td>
</tr>
<tr>
<td></td>
<td>•200</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>•320</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

To prepare high quality peptide samples for LC-MS, it is very important to ensure the overall quality of shotgun proteomics experiments. Peptide samples collected after digestion usually need to be cleaned to remove salts, possible gel pieces (for in-gel digested samples) or particles (for in-solution digested samples), which otherwise will damage the LC switching valves or clog the columns.
### Advantages

- Load your sample on AttractSPE™Disks Tips for desalting or purify peptides and proteins
- Several sorbents based Stage-tips and stacking
- Available as 10, 20, 100, 200µL, 1mL

<table>
<thead>
<tr>
<th>Designation</th>
<th>Description</th>
<th>Reference – 200µL - 96/pk</th>
<th>Reference – 1mL - 96/pk</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>AttractSPE™ Disks Tips C18</strong></td>
<td>C18 membrane, 96/pk</td>
<td>Tips-C18.T1.200.96</td>
<td>Tips-C18.T1.1000.96</td>
</tr>
<tr>
<td><strong>AttractSPE™ Disks Tips C8</strong></td>
<td>C8 membrane, 96/pk</td>
<td>Tips-C8.T1.200.96</td>
<td>Tips-C8.T1.1000.96</td>
</tr>
<tr>
<td><strong>AttractSPE™ Disks Tips SDB</strong></td>
<td>PS-DVB membrane, 96/pk</td>
<td>Tips-DVB.T1.200.96</td>
<td>Tips-DVB.T1.1000.96</td>
</tr>
<tr>
<td><strong>AttractSPE™ Disks Tips SDB - RPS</strong></td>
<td>Modified DVB membrane, 96/pk</td>
<td>Tips-RPS.T1.200.96</td>
<td>Tips-RPS.T1.1000.96</td>
</tr>
<tr>
<td><strong>AttractSPE™ Disks Tips SAX</strong></td>
<td>SAX membrane, 96/pk</td>
<td>Tips-SAX.T1.200.96</td>
<td>Tips-SAX.T1.1000.96</td>
</tr>
<tr>
<td><strong>AttractSPE™ Disks Tips SCX</strong></td>
<td>SCX membrane, 96/pk</td>
<td>Tips-SCX.T1.200.96</td>
<td>Tips-SCX.T1.1000.96</td>
</tr>
<tr>
<td><strong>AttractSPE™ Disks Tips C18-SCX</strong></td>
<td>Stacking C18 &amp; SCX membranes, 96/pk</td>
<td>Tips-C18-SCX.T1.200.96</td>
<td>Tips-C18-SCX.T1.1000.96</td>
</tr>
<tr>
<td><strong>AttractSPE™ Disks Tips SDB-SAX</strong></td>
<td>Stacking PS-DVB &amp; SAX membranes, 96/pk</td>
<td>Tips-DVB-SAX.T1.200.96</td>
<td>Tips-DVB-SAX.T1.1000.96</td>
</tr>
<tr>
<td><strong>AttractSPE™ Disks Tips Silica</strong></td>
<td>Silica membranes, 96/pk</td>
<td>Tips-Si.T1.200.96</td>
<td>Tips-Si.T1.1000.96</td>
</tr>
</tbody>
</table>
**AttractSPE™ Disk Spin Column** is an SPE column created by immobilizing a monolithic disk inside a microcentrifuge SPE tube. Thanks to its self stand, the monolith disk requires no frits for immobilizing the column bed (unlike traditional SPE products), which allows essentially 100% recovery of the original sample volume after a couple of brief centrifugations.
AttractSPE™ Disk C18 Spin Columns are ready-to-use centrifuge columns of porous C18 reverse-phase resin with excellent binding and recovery characteristics for peptide sample preparation for mass spectrometry and other methods.

Peptide samples can be purified and concentrated for a variety of applications using AttractSPE™ Disk C18 Spin Columns. Each spin column contains a porous C18 reversed-phase resin with excellent binding and recovery characteristics for a wide range of peptide concentrations. The spin column format allows simultaneous processing of multiple samples (10 to 150 µL each) in approximately 30 minutes without laborious repeat pipetting or specialized equipment. AttractSPE™ Disk C18 Spin Columns can be used effectively for processing peptides derived from 10 ng to 30 µg of protein. Sensitivity and detection limits are dependent on the downstream application.

Advantages of AttractSPE™ Disk C18 Spin Columns

- Removes interfering contaminants—significantly reduces signal suppression and improves signal-to-noise ratios and sequence coverage
- Simplifies optimization—processing yields high-quality spectra and is effective for a variety of reverse-phase-compatible contaminants
- Robust—works with a wide variety of load volumes and concentrations; no need to reduce sample volume before application
- Convenient—easy to handle and requires no special equipment to process multiple samples simultaneously (unlike tip-driven systems that require one sample to be processed at a time)
- Sensitive—special C18 resin allows excellent recovery percentages, even at low (sub-picomole) sample loads
# AttractSPE™ Disks Spin

<table>
<thead>
<tr>
<th>Designation</th>
<th>Description</th>
<th>Reference micro spin – 96/pk</th>
<th>Reference mini spin – 96/pk</th>
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</thead>
<tbody>
<tr>
<td>AttractSPE™ Disks Spin C18</td>
<td>C18 membrane, 96/pk</td>
<td>μSpin-C18.T1.96</td>
<td>Spin-C18.T1.96</td>
</tr>
<tr>
<td>AttractSPE™ Disks Spin C8</td>
<td>C8 membrane, 96/pk</td>
<td>μSpin-C8.T1.96</td>
<td>Spin-C8.T1.96</td>
</tr>
<tr>
<td>AttractSPE™ Disks Spin SDB</td>
<td>PS-DVB membrane, 96/pk</td>
<td>μSpin-DVB-T1-96</td>
<td>Spin-DVB.T1.96</td>
</tr>
<tr>
<td>AttractSPE™ Disks Spin SDB – RPS</td>
<td>Modified DVB membrane, 96/pk</td>
<td>μSpin-RPS-T1-96</td>
<td>Spin-RPS.T1.96</td>
</tr>
<tr>
<td>AttractSPE™ Disks Spin SAX</td>
<td>SAX membrane, 96/pk</td>
<td>μSpin-SAX-T1-96</td>
<td>Spin-SAX.T1.96</td>
</tr>
<tr>
<td>AttractSPE™ Disks Spin SCX</td>
<td>SCX membrane, 96/pk</td>
<td>μSpin-SCX-T1-96</td>
<td>Spin-SCX.T1.96</td>
</tr>
<tr>
<td>AttractSPE™ Disks Spin C18-SCX</td>
<td>Stacking C18 &amp; SCX membranes, 96/pk</td>
<td>μSpin-C18-SCX-T1-96</td>
<td>Spin-C18-SCX.T1.96</td>
</tr>
<tr>
<td>AttractSPE™ Disks Spin SDB-SAX</td>
<td>Stacking PS-DVB &amp; SAX membranes, 96/pk</td>
<td>μSpin-DVB-SAX-T1-96</td>
<td>Spin-DVB-SAX.T1.96</td>
</tr>
<tr>
<td>AttractSPE™ Disks Spin Silica</td>
<td>Silica membranes, 96/pk</td>
<td>μSpin-Si-T1-96</td>
<td>Spin-Si.T1.96</td>
</tr>
<tr>
<td>Reservoirs for AttractSPE™ Disks Spin</td>
<td>25mL- 96/pk</td>
<td>Spin-Res-96</td>
<td>Spin-Res-96</td>
</tr>
</tbody>
</table>

**Advantages**

- 2 spin size formats: micro and minispin
- Fast and easy extraction process by centrifugation
- High throughput purification

Order on [www'affinisep.com](http://www'affinisep.com)
AttractSPE™ Disk 96 Plate is a plate with 96 microSPE columns containing immobilized SPE disks that enables a high throughput clean-up with the simultaneous preparation of 96 samples. Thanks to this small sorbent amount and a high efficiency, almost 100% of the original sample is recovered.

## Advantages

- All sorbents available on catalog or on demand
- Several sorbent weights available.
- Easy handling with automates or liquid handling robots - spinnable
- AttractSPE™ Manifold for 96 wellPlate format or AttractSPE™ Positive pressure Manifold for 96 well Plate

### Designation | Description | Reference – 1/pk
---|---|---
**AttractSPE™ Disks 96 plate C18** | C18 membrane, 1/pk | 96W-C18.T1.1
**AttractSPE™ Disks 96 plate C8** | C8 membrane, 1/pk | 96W-C8.T1.1
**AttractSPE™ Disks 96 plate SDB** | PS-DVB membrane, 1/pk | 96W-DVB.T1.1
**AttractSPE™ Disks 96 plate SDB – RPS** | Modified DVB membrane, 1/pk | 96W-RPS.T1.1
**AttractSPE™ Disks 96 plate SAX** | SAX membrane, 1/pk | 96W-SAX.T1.1
**AttractSPE™ Disks 96 plate SCX** | SCX membrane, 1/pk | 96W-SCX.T1.1
**AttractSPE™ Disks 96 plate C18-SCX** | Stacking C18 & SCX membranes, 1/pk | 96W-C18-SCX.T1.1
**AttractSPE™ Disks 96 plate C18-SCX-C18** | Stacking C18 & SCX &C18 membranes, 1/pk | 96W-C18-SCX-C18.T1.1
**AttractSPE™ Disks 96 plate SDB-SAX** | Stacking PS-DVB & SAX membranes, 1/pk | 96W-DVB-SAX.T1.1
**AttractSPE™ Disks 96 plate Silica** | Silica membranes, 1/pk | 96W-Si.T1.1
### AttracSPE™ Disks Cartridges

**Advantages**

- 3 and 6mL format
- Larger loading volume with a minimal elution volume
- High extraction capacity
- A broad range of sorbents or sorbent combination

<table>
<thead>
<tr>
<th>Designation</th>
<th>Description</th>
<th>Reference – 3mL</th>
<th>Reference – 6mL</th>
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</thead>
<tbody>
<tr>
<td>AttracSPE™ Disks Cartridge C18</td>
<td>C18 membrane, 50/pk</td>
<td>CAR3-C18.T1.50</td>
<td>CAR6-C18.T1.50</td>
</tr>
<tr>
<td>AttracSPE™ Disks Cartridge C8</td>
<td>C8 membrane, 50/pk</td>
<td>CAR3-C8.T1.50</td>
<td>CAR6-C8.T1.50</td>
</tr>
<tr>
<td>AttracSPE™ Disks Cartridge SDB</td>
<td>PS-DVB membrane, 50/pk</td>
<td>CAR3-DVB-T1-50</td>
<td>CAR6-DVB.T1.50</td>
</tr>
<tr>
<td>AttracSPE™ Disks Cartridge SDB – RPS</td>
<td>Modified DVB membrane, 50/pk</td>
<td>CAR3-RPS-T1-50</td>
<td>CAR6-RPS.T1.50</td>
</tr>
<tr>
<td>AttracSPE™ Disks Cartridge SAX</td>
<td>SAX membrane, 50/pk</td>
<td>CAR3-SAX-T1-50</td>
<td>CAR6-SAX.T1.50</td>
</tr>
<tr>
<td>AttracSPE™ Disks Cartridge SCX</td>
<td>SCX membrane, 50/pk</td>
<td>CAR3-SCX-T1-50</td>
<td>CAR6-SCX.T1.50</td>
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<tr>
<td>AttracSPE™ Disks Cartridge C18-SCX</td>
<td>Stacking C18 &amp; SCX membranes, 50/pk</td>
<td>CAR3-C18-SCX-T1-50</td>
<td>CAR6-C18-SCX.T1.50</td>
</tr>
<tr>
<td>AttracSPE™ Disks Cartridge C18-SCX-C18</td>
<td>Stacking C18 &amp; SCX &amp;C18 membranes, 50/pk</td>
<td>CAR3-C18-SCX-C18-T1-50</td>
<td>CAR6-C18-SCX-C18.T1.50</td>
</tr>
<tr>
<td>AttracSPE™ Disks 96 wellplate SDB-SAX</td>
<td>Stacking PS-DVB &amp; SAX membranes, 50/pk</td>
<td>CAR3-DVB-SAX-T1-50</td>
<td>CAR6-DVB-SAX.T1.50</td>
</tr>
<tr>
<td>AttracSPE™ Disks 96 wellplate Silica</td>
<td>Silica membranes, 50/pk</td>
<td>CAR3-Si-T1-50</td>
<td>CAR6-Si.T1.50</td>
</tr>
</tbody>
</table>
SPE ACCESSORIES

Positive Pressure Manifolds
Vacuum Manifold
Mini Vap
Pump
AttractSPE™ Positive Pressure Manifold

is a Solid Phase Extraction Manifold using positive pressure to push the liquid through the SPE tips, cartridges or the 96-well plates simultaneously. This process confers some very interesting advantages to this product in term of repeatability.

<table>
<thead>
<tr>
<th>Description</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>24-position with tips</td>
<td>MPP-Tips-KIT</td>
</tr>
<tr>
<td>96-position for 96 SPE well plate</td>
<td>MPP-96W-KIT</td>
</tr>
<tr>
<td>24-position, 1 mL</td>
<td>MPP-1ML-KIT</td>
</tr>
<tr>
<td>24-position, 3 mL</td>
<td>MPP-3ML-KIT</td>
</tr>
<tr>
<td>15-position, 6 mL</td>
<td>MPP-6ML-KIT</td>
</tr>
</tbody>
</table>
AttractSPE™ Vacuum Manifold

very flexible, allows you to control the flow and to process up to 12 or 24 samples simultaneously, to gain significantly time during sample preparation steps.

Vacuum Manifold

**ACC-MAN1** Like all chromatography techniques, Use of SPE cartridges needs a precise control of flow rate for maintaining reproducible extractions. Solid Phase extraction Vacuum Manifold allows you to control the flow and to process up to 12 (12-port version) or 24 (24-port version) AFFINIMIP® SPE samples simultaneously, to gain significantly time during sample preparation steps.

Mini PUMP

**ACC-PUMP** Mini diaphragm vacuum pump for solid phase extraction experiments

- 5.5L/min
- ~120 torr vacuum
- Oil-free
- portable

Vacuum pump trap

**ACC-TRAP** SPE Vacuum pump trap kit

Installed between the manifold and the vacuum pump, it collects all liquids that are aspirated preventing contamination of the vacuum pump with a capacity of 1L.
**SPE ACCESSORIES**

### SPE Adapter & Reservoir kit

**ACC-AR1**  
Tube adapters serve to pile one SPE tube on top of another to provide different selectivities. A larger empty syringe barrel can be stacked on top of a smaller SPE tube to act as a larger load reservoir. Or, they can serve as an adapter for positive pressure methods (e.g. from a syringe or air/ N2 line).

### Mini-Vap

**ACC-VAP1**  
The 6-Port Mini-Vap concentrator/evaporator processes six vials at one time. The Mini-Vap includes a needle valve for fine metering of air or nitrogen drying gas.

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**SPE ACCESSORIES – Product list**

<table>
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<tr>
<th>SPE Accessories</th>
<th>Designation</th>
<th>Definition</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Manifold</strong></td>
<td>SPE Vacuum Manifold</td>
<td>12-port model</td>
<td>ACC-MAN1</td>
</tr>
<tr>
<td><strong>SPE Adapter &amp; Reservoir kit</strong></td>
<td>SPE Adapter &amp; Reservoir kit</td>
<td>Kit of 12 reservoirs 60ml and adapters for use with 1,3 &amp; 6 mL cartridges</td>
<td>ACC-AR1</td>
</tr>
<tr>
<td><strong>Mini-Vap</strong></td>
<td>Mini Evaporator / Concentrator</td>
<td>6 port Mini-Vap Evaporator/Concentrator for use with 1 to 250mL containers</td>
<td>ACC-VAP1</td>
</tr>
<tr>
<td><strong>Mini PUMP</strong></td>
<td>Mini vacuum pump</td>
<td>Laboport diaphragm vacuum mini pump, 5.5L/min</td>
<td>ACC-PUMP</td>
</tr>
<tr>
<td><strong>Vacuum pump trap</strong></td>
<td>SPE Vacuum pump trap kit</td>
<td>1L trap kit</td>
<td>ACC-TRAP</td>
</tr>
</tbody>
</table>
About

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