

## Cartridges and Columns

Whatman SPE devices are designed to concentrate or isolate analytes from complex sample matrices. Available with a variety of packings, these devices offer the advantage of working with different types of interactions between the sample components, sorbent and suitable eluent. The polarity (polar, nonpolar) or charge (anion, cation) of the analyte of interest will determine the proper choice of sorbent and solvent.

Whatman SPE devices have silica-based chemistries and are available in several configurations. Column capacities include 3, 6 and 12 mL size columns. A cartridge format for use with a syringe is also available.

Solid phase extraction is a chromatographic technique used to prepare samples for subsequent analysis by removing interfering substances that may be present. This is done either by retaining the substance of interest and washing off everything else or by retaining the interfering substances and eluting the product of interest.

Whatman SPE devices contain high quality sorbents for LC chromatographers.

### Features and Benefits

- Available in a range of packings
- Whatman quality sorbents for consistent results

### Applications

- Isolate analytes from complex sample matrices
- Remove interfering substances in order to prepare samples for subsequent analysis
- Drug metabolites in biological fluids
- Food analysis
- Environmental analysis

### Typical Data

Key to Sorbent Abbreviations		Features
ODS-4	Octadecyl silane	14% of carbon load, end capped
ODS-5	Octadecyl silane	18% of carbon load, end capped
C-8	Octyl silane	8.5% of carbon load, end capped
FLO	Florisil®	—
SCX	Strong cation exchanger—aromatic benzene sulfonic acid functional groups	—
SAX	Strong anion exchanger—quaternary amino groups ( $-NR_3^+$ )	—

### Ordering Information

Catalog Number	Product Code	Column Volume	Quantity/Pack
<b>Column Type</b>			
6803-0505	ODS-5	500 mg/3 mL	50
6803-0507	ODS-5	500 mg/6 mL	30
6803-0509	ODS-5	1000 mg/12 mL	20
6803-1205	C-8	500 mg/3 mL	50
6803-1809	FLO	1000 mg/12 mL	20
6803-2005	SAX	500 mg/3 mL	50
6803-2605	SCX	500 mg/3 mL	50
<b>Cartridge Type*</b>			
6804-0405	ODS-4	500 mg/unit	50
6804-0505	ODS-5	500 mg/unit	50

\* For use with a syringe or vacuum manifold after removing male outlet collar.



## Solid Phase Extraction (SPE) Disks

The Whatman SPE disk utilizes C-18 derivatized silica, incorporated into a glass microfiber matrix. The high flow and high loading capacity of the glass microfiber media allow for rapid aqueous sample flow rates, while oil, grease and other organic analytes are efficiently extracted and retained by the reverse phase silica material.

### Features and Benefits

- High quality Whatman glass microfiber media for superior flow and high loading capacity
- Efficient grease analyte extraction and retention

### Applications

- Oil and grease analysis, EPA Method 1664A

### Ordering Information

Solid Phase Extraction (SPE) Disks					
Catalog Number	Description	Filter Media	Diameter (mm)	Pore Size (µm)	Quantity/Box
6805-3043	SPE disk for oil and grease	—	47	—	80
6805-3048	SPE disk for oil and grease	—	90	—	20
6805-8034	DFP prefilter	—	42.5	5	48
6805-8035	DFP prefilter for 47 mm disk	PP	47	5	48
6805-8037	DFP prefilter for 90 mm disk	PP	90	5	16

## Sample Drying Device

A sample drying device is available for removal of water from organic extracts. It attaches to the male luer outlet of a syringe in which the organic sample extract has been collected. Traces of water are removed as the sample is pushed through the drying device into a collection vial.



### Ordering Information

Cartridge Type with Polypropylene Filter			
Catalog Number	Product	Size (mg)	Quantity/Pack
6805-8020	Sodium sulfate with 0.45 µm PP filter and tube tip	1500	50