

SolEx Solid-Phase Extraction Cartridges



Solid-phase extraction (SPE) is a widely used sample preparation procedure for the isolation of contaminants at low concentrations in aqueous samples. SolEx[®] SPE cartridges from Dionex are designed for use with the AutoTrace[®] 280 system and other SPE instrumentation such as vacuum manifolds, and older models of the AutoTrace extraction systems. These cartridges are offered in a variety of functionalities packed in a syringe-type bodies for use in many applications.

SPE is used for a wide variety of methods including EPA-approved methods for the concentration of pesticides, herbicides, hydrocarbons, and other organic contaminants from water. SolEx SPE cartridges are offered in two forms: Silica-based, which includes various C8 and C18 chemistries and unbound silica; and carbon-based, which includes activated carbon (charcoal) and graphitized carbon.

Now sold under the
Thermo Scientific brand

Thermo
SCIENTIFIC



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Silica-Based SPE Cartridges

Regular C8 and C18 SPE Cartridges

The 1 mL cartridges contain 0.1 g of packing; the 3 mL cartridges contain 0.5 g of packing; and the 6 mL cartridges contain 1 g of packing. The C18 material is available as endcapped or unencapped silica to provide the selectivity required by various applications. The C8 and C18 chemistries are two of the most commonly used sorbent types for off-line SPE and are used for concentration of pesticides, herbicides, hydrocarbons, and other organic contaminants from water as approved by the US EPA.

Phthalate-Free C8 and C18 SPE Cartridges

Phthalate-free SPE cartridges can be used for extraction of pesticides from water, and are excellent for trace analysis. They are available in C18 and C8 functionalities in a 6 mL cartridge. The C18 cartridges have 1 g of packing and the C8 cartridges have 0.5 g of packing. These have the same specifications as the standard C8 and C18 cartridges, except they feature Teflon® frits and are packed in mylar bags to minimize phthalate contamination.

C18 SPE Cartridges for EPA Method 525.2

These SPE cartridges are designed specifically for extraction of semivolatiles from drinking water (US EPA Method 525.2). These C18 cartridges are available in a 6 mL cartridge and have 1.5 g of packing.

Unbonded Silica (Acid Washed) SPE Cartridges

The unbonded silica SPE cartridges can be used to remove polar impurities and purify polar compounds. They are available in 6 mL cartridges with 0.5 g of packing.

Carbon-Based SPE Cartridges

Activated Carbon (Charcoal) SPE Cartridges for EPA Methods 521 and 522

The activated carbon or charcoal SPE cartridges can be used for the extraction of nitrosamines in drinking water (US EPA Method 521) and for extraction of 1,4-dioxane in drinking water (US EPA Method 522). They are available in 6 mL cartridges with 2 g of packing.

Graphitized Carbon SPE Cartridges for EPA Method 535

The graphitized carbon SPE cartridges can be used for the extraction of herbicides from drinking water (EPA Method 535). They are available in 6 mL cartridges with 0.5 g of packing.

SPECIFICATIONS

Silica-Based SPE Cartridges Regular C8 and C18 SPE Cartridges

Particle Size:

40-63 μm

Pore Volume:

0.70-0.85 cm^3/g

Surface Area:

470-530 m^2/g

Shelf Life:

24 months

Unbonded Silica (Acid Washed) SPE Cartridges

Particle Size:

40-63 μm

Pore Size:

60 A

Surface Area:

500 m^2/g

Shelf Life:

24 months

Carbon-Based SPE Cartridges

Activated Carbon

Sorbent Material:

Activated carbon
(charcoal) particles

Surface Area:

972 m^2/g

Shelf Life:

5 years

Graphitized Carbon

Sorbent Material:

Nonporous graphitized
carbon particles

Surface Area:

90 m^2/g

Shelf Life:

5 years

ORDERING INFORMATION

In the U.S. call 1-800-346-6390, or contact the Dionex Regional Office nearest you. Outside the U.S., order through your local Dionex office or distributor. Refer to the following part numbers.

| Regular C8 and C18 SPE Cartridges | Part Number |
|---|-------------|
| SolEx C18 6 mL cartridge 1 g of packing. Package of 30 | 074410 |
| SolEx C18 6 mL cartridge with 0.5 g of packing. Package of 50..... | 074417 |
| SolEx C18 3 mL cartridge with 0.5 g of packing. Package of 50..... | 074412 |
| SolEx C18 1 mL cartridge with 0.1 g of packing. Package of 100..... | 074623 |
| SolEx C18 (un-encapped material) 6 mL cartridge with 1.0 g of packing. Package of 30..... | 074416 |
| SolEx C8 6 mL cartridge with 1 g of packing. Package of 30..... | 074411 |
| SolEx C8 3 mL cartridge with 0.5 g of packing. Package of 50..... | 074413 |
| SolEx C8 1 mL cartridge with 0.1 g of packing. Package of 100..... | 074415 |
| Phthalate-Free C8 and C18 SPE Cartridges | |
| SolEx C18 Clean 6 mL cartridge with 1 g of packing. Package of 30 | 075895 |
| SolEx C8 Clean 6 mL cartridges with 0.5 g of packing. Package of 50..... | 075897 |
| C18 SPE Cartridges for EPA Method 525.2 | |
| SolEx C-18 525 6 mL cartridge with 1.5 g of packing. Package of 30 | 075896 |
| Unbonded Silica (Acid Washed) SPE Cartridges | |
| SolEx Silica 6 mL cartridge with 0.5 g of packing. Package of 50 | 074589 |
| Activated Carbon (Charcoal) SPE Cartridges for EPA Methods 521 and 522 | |
| SolEx Carbon 6 mL cartridge with 2 g of packing. Package of 20..... | 074590 |
| Graphitized Carbon SPE Cartridges for EPA Method 535 | |
| SolEx GCB 6 mL cartridge with 0.5 g of packing. Package of 30 | 075898 |

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Dionex Corporation
1228 Titan Way
P.O. Box 3603
Sunnyvale, CA
94088-3603
(408) 737-0700

North America
U.S./Canada (847) 295-7500
South America
Brazil (55) 11 3731 5140

Europe
Austria (43) 1 616 51 25 Benelux (31) 20 683 9768; (32) 3 353 4294
Denmark (45) 36 36 90 90 France (33) 1 39 30 01 10 Germany (49) 6126 991 0
Ireland (353) 1 644 0064 Italy (39) 02 51 62 1267 Sweden (46) 8 473 3380
Switzerland (41) 62 205 9966 United Kingdom (44) 1276 691722

Asia Pacific
Australia (61) 2 9420 5233 China (852) 2428 3282 India (91) 22 2764 2735
Japan (81) 6 6885 1213 Korea (82) 2 2653 2580 Singapore (65) 6289 1190
Taiwan (886) 2 8751 6655
www.dionex.com



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