

Restek Solid Phase Extraction Cartridges

For Cleanup of Environmental Samples

by Lydia Nolan, Instrument Support Chemist

- ✓ Special purpose SPE cartridges for specific methods.
- ✓ General purpose cartridges with normal, reversed, or ion exchange phases.
- ✓ Extraction manifolds and pressure/vacuum pump available.

Solid phase extraction is one of the most widely used forms of sample preparation. Ease of use, safety, conservative solvent usage, and cost effectiveness all contribute to its popularity.

We offer a range of SPE cartridges to meet demanding cleanup procedures. Our standard products include Florisil® sorbent, ion exchange resins, normal phase materials, and bonded reversed phase materials. In addition, we offer specialty products, including Florisil® in ultraclean glass tubes, mixed bed sorbents, and cartridges for specific applications. Our SPE manifolds and pressure/vacuum pump, described in our chromatography supplies catalog, will keep your system running efficiently.

Massachusetts TPH Cartridges

- Reduced background extractables.
- Easier quantification.
- Reproducible fractionation patterns, tube after tube, lot after lot.
- Lower cost than glass tubes.
- Efficient processing on vacuum manifolds.

If you are seeing aromatic hydrocarbons in your aliphatics fraction, use our Massachusetts TPH silica gel cartridges. We designed them specifically for separating aliphatic and aromatic hydrocarbons, to meet the requirements of the Massachusetts method-

ology, which has been adopted by other states as well. Capillary GC columns and reference materials for the Massachusetts methodology are described in Application Essentials 59744, available free on request.

Florisil® Cartridges

Florisil® adsorbent is an excellent material for cleanup of samples containing pesticides and/or PCBs. In addition, it can be used to separate mixtures of aliphatic and aromatic hydrocarbons. An effective cleanup procedure is summarized in Application Note 59562A, available free on request.



Resprep™ 12- or 24-Port Tube Manifolds

- Use with any standard male luer-end SPE tube or cartridge.
- Inert, Teflon® sample guides reduce cross-contamination and carryover.
- Flexible sample collection rack will accommodate a variety of receiving vessels.
- Quick vacuum-release valve for better control.
- Individual vacuum control for each tube—improves reproducibility.



Complete manifold includes glass basin with built-in vacuum regulator, polypropylene top plate with 12 or 24 individual control valves, 12- or 24-position collection rack, and 12 or 24 Teflon® sample guides.

Description	qty.	cat.#	price
Resprep™ 12-Port Manifold	kit	26077	
Resprep™ 24-Port Manifold	kit	26080	

Specialty Cartridges

Specifically designed to provide consistent and reproducible results for the listed method or application. Polypropylene tubes with polyethylene frits.

Description	Applications	Tube Volume, Bed Weight	qty.	cat.#	price
Massachusetts TPH	Extraction of hexane-extractable petroleum hydrocarbons from soil and waste samples. Specially treated to reduce contaminants and increase capacity. Silica.	20mL, 5g	20-pk.	26065	
EPA Method 548.1	Extraction of endothal from aqueous samples. Weak anion exchange resin.	6mL	30-pk.	26063	
EPA Method 552.1	Extraction of haloacetic acids from aqueous samples. Strong anion exchange resin.	1mL	100-pk.	26064	
Organo Tin	High-capacity cleanup of butyl and phenyl tin compounds from soil, water, and biota. Mixed bed.	60mL	16-pk.	24049	
RDX	Extraction of explosive compounds (EPA Method 8330) from water samples.	6mL, 500mg	30-pk.	26093	

Normal Phase Cartridges

Hydrophilic (polar) adsorbents used to extract hydrophilic analytes from nonpolar matrices, such as organic solvents (e.g., polar contaminants from sample extracts). Polypropylene tubes with polyethylene frits, except as indicated otherwise.

	3mL/200mg (50-pk.)	3mL/500mg (50-pk.)	6mL/500mg (30-pk.)	6mL/1000mg (30-pk.)
Florisil® (EPA SW 846 methods and CLP protocols)	—	24031	—	24034
Silica (EPA SW 846 methods)	—	24032*	26086**	26085**
	—	24035	—	24038
	—	24036*	—	—

*Teflon® frits

**Glass tubes with Teflon® frits

Massachusetts EPH/VPH/APH Methods

(lit. cat.# 59744)

Massachusetts' gas chromatographic methods for volatile (VPH), extractable (EPH), and air phase (APH) fractions of gasoline and other petroleum products have been adopted by other states, and in Canada. This 4-page publication lists many Restek products that can help a laboratory meet the requirements of the Massachusetts methods, including capillary columns (Restek columns are specified in each method), extraction cartridges, analytical reference materials, and air sampling canisters.

Free!

Call our literature hotline: 800-356-1688 or 814-353-1300, ext. 5, or contact your Restek representative.