INNOPORE
EXTRACTION DISKS
C18 C8 EPA 1664

InnoPore™ Solid Phase Extraction (SPE) Disks is a productive alternative to liquid/liquid extraction for sample preparation. Adsorbent particles are entrapped into a PTFE matrix creating a mechanically stable sorbent disk. The disks are used for purification and concentration of analytes from aqueous samples. InnoPore™ SPE disks provide an efficient sample prep solution for large volume samples. The disk format provides a much larger surface area for sorbent/sample contact compared to SPE column format. Fast flow rates and high throughput may be achieved with use of an InnoPore™ solid phase extraction disks.

InnoPore™extraction disks are available in C18 and C8 of sorbent chemistries to complement most analytical applications. Each sorbent exhibits unique properties of retention and selectivity for a particular analyte. The choice of the most appropriate sorbent for a particular is judged based on the difference in chemical nature of the analyte from the sample matrix and the cleanliness of the resulting chromatography. InnoPore™ SPE Disks are manufactured so that their performance is very similar to the well-known Empore™ SPE disks. Therefore InnoPore™ SPE Disks can be used as a direct replacement to Empore™ SPE disks, requiring minimal method changes.

The InnoPore™ SPE disks are available in 47 and 90 mm diameters. InnoPore™ 47 mm disks are mainly used for processing samples with fairly low suspended solids. InnoPore™ 90 mm disks are efficient at processing larger volume samples or samples with greater amounts of suspended solids. InnoPore™ SPE disks are high density membranes composed of chromatographic particles averaging 10-12 µm in size. The high density membranes are designed for maximum extraction efficiency with minimal elution volumes for samples that have less matrix interference. Cross references to Empore™ SPE disks are listed below.

Sorbent	Applications	Part Number		Empore™ P/N	
		47 mm	90 mm	47 mm	90 mm
C8 Bonded Silica	EPA Method • 549.1 Diquat and Paraquat	IPC847	IPC890	2214	2314
C18 Bonded Silica	EPA Methods • 506 Phthalate & Adipate Esters • 508.1 Chlorinated Pesticides, Herbicides & Organohalides • 525.2 Semi-Volatile Organic Compounds • 550.1 Polynuclear Aromatic Hydrocarbons • 608 ATP 3M0222 OrganochlorinePesticides and PCBs • 1613B Dioxins and Furans	IPC1847	IPC1890	2215	2315
EPA 1664 (Oil & Grease)	• EPA Method 1664 Rev.A n-Hexane Extractable Materials	IPC166447	IPC166490	2270	2370

Volume Guide
The small bed mass of sorbent in the InnoPore membrane allows for the use of smaller solvent volumes compared with traditional SPE products. A general guide to solvent volumes for a disk SPE method using C8 and C18 phase sorbents is listed below

Step	Solvent	47 mm disk	90 mm disk
Condition	Methanol Reagent Water	10-15 mL 20-50 mL	20-30 mL 30-100 mL
Sample Load	Aqueos	100-1000 mL	500-2000 mL
Elute	Organic	10-15 mL	20-30 mL

+49 36846 418309 • www.chrom4.com • info@chrom4.com

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