

OASIS HLB DISK

A LEAP FORWARD IN ENVIRONMENTAL SAMPLE PREPARATION



OASIS®
SAMPLE EXTRACTION PRODUCTS



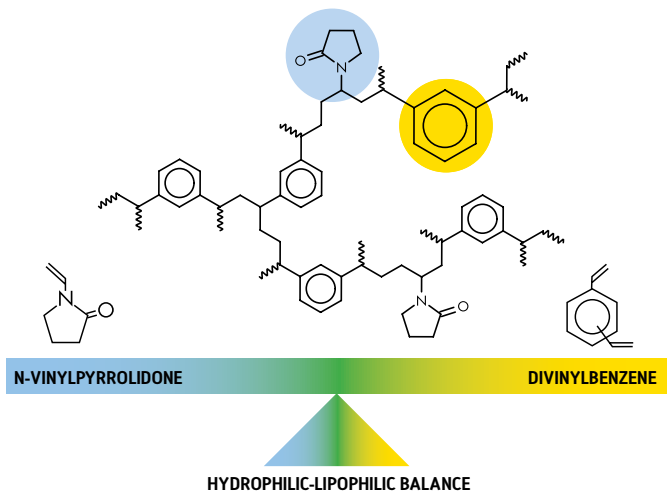
Since its inception, Waters Oasis® HLB sorbent has revolutionized solid-phase extraction (SPE). Providing water-wettability, high retention, and the capability to work with a wide spectrum of analytes, Oasis HLB sorbent is a gold standard in environmental testing.

Waters Corporation, partnering with Horizon Technology, is proud to announce the newest addition to the Oasis family of products—the Oasis HLB Disk.

Combining the Oasis polymeric sorbent with the Atlantic™ disk design has produced a solution for many of the common problems facing the environmental testing laboratory. The Oasis HLB Disk features all of the benefits of an SPE Disk without sacrificing any of the well known benefits of Oasis:

- **Water-wettable**—does not dry out even if air is drawn through
- **Highly retentive**—effective with a broad range of analytes, especially polar compounds
- **Fast**—increased throughput versus a cartridge format
- **Large sample volume**—ideal for environmental samples
- **Reduced solvent consumption**—compared to typical liquid-liquid extraction (LLE)
- **Increased capability for dirty samples**—compared to other SPE formats
- **Excellent recoveries**—comparable or better than LLE

Unique Water-Wettable Oasis HLB Copolymer



Specific Surface Area: 810 m²/g,
 Average Pore Diameter: 80 Å Total Pore Volume: 1.3 cm³/g,
 Average Particle Diameter: 5 µm, 15 µm, 25 µm, 30 µm or 60 µm

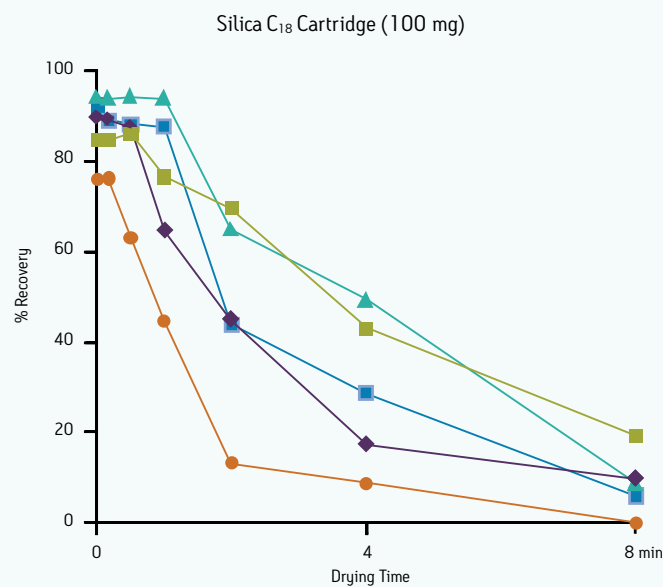
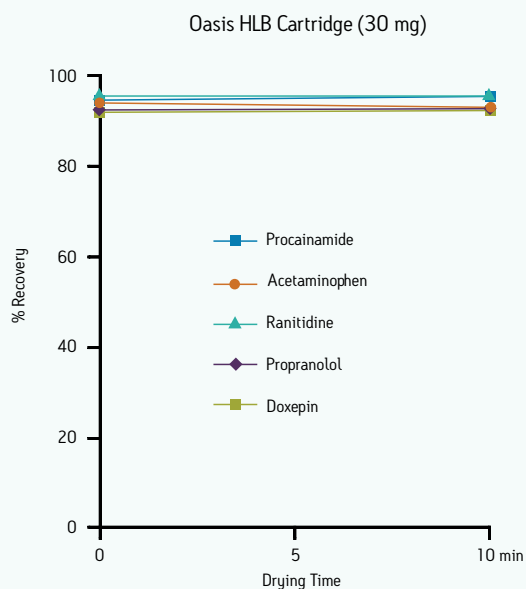
Benefits of Oasis HLB Sorbent

Oasis HLB is a **Hydrophilic-Lipophilic-Balanced**, water-wettable, reversed-phase sorbent for all your SPE needs. It is made from a specific ratio of two monomers, hydrophilic N-vinylpyrrolidone and lipophilic divinylbenzene. It provides superior reversed-phase capacity with a neutral polar “hook” for enhanced retention of polar analytes.

Waters HLB sorbent possesses a number of key features due to this unique substrate: stability at pH extremes and in a wide range of solvents, extraordinary retention of polar compounds, and a relative hydrophobic retention capacity 3X higher than that of traditional silica-based SPE sorbents like C₁₈.

Water-wettable Oasis HLB sorbent exhibits excellent retention capacity for a wider polarity spectrum of analytes, even if the sorbent bed runs dry during conditioning or sample loading. This means that your SPE methods will be more rugged and robust, obviating the need for repeat preparation.

Effect of Drying on Recovery



The unique water-wettable of the Oasis HLB copolymer offers excellent performance, even if the sorbent bed runs dry during conditioning or sample loading something not possible using a standard C₁₈ sorbent.

The Oasis HLB Disk incorporates Atlantic Disk Technology and is certified for use with automated extraction manifolds. Manufactured and tested to guarantee the highest quality results, Oasis HLB Disks meet your environmental testing needs.



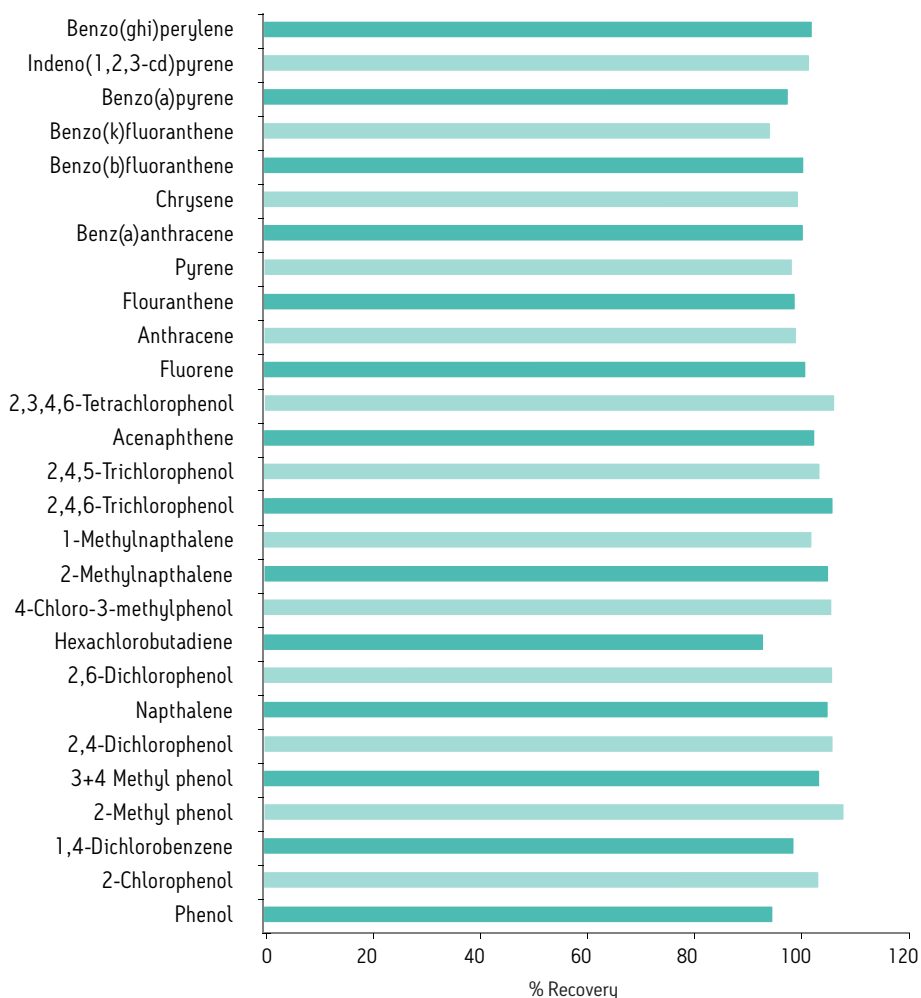
OASIS HLB DISKS FOR ENVIRONMENTAL ANALYSIS

EPA Method 8270 for the determination of semivolatile organic compounds requires a particularly difficult extraction technique. The acidic, basic, and neutral compounds specified in this method present a variety of requirements and provide a significant challenge to any extraction technology. Using the Oasis HLB Disk in place of a silica C18 disk, this extraction was performed successfully with 95% of the compounds of interest demonstrating optimal recoveries.

Extraction parameters:

- 50 mg/L standard pH 2
- Followed by pH 12 extraction
- Concentrated to 1 mL

Oasis HLB Disk % Recovery for Selected EPA Method 8270 Compounds



When used for EPA Method 8270, Oasis HLB Disks show excellent recoveries for selected compounds of interest.

ENVIRONMENTAL SOLUTIONS

Waters Environmental Solutions include the EPA Method 8270 Kit, featuring the Oasis HLB Disks and Certified Reference Standards for Acids, Bases and Neutrals.



For more information on Waters Environmental Solutions, visit:
www.waters.com/environment



Environmental Chromatography Methods Guide



Environmental Analysis Catalog

ORDERING INFORMATION

Description	Part Number
Oasis HLB Disks, 30 µm (20/pk)	186004628

For more information on Oasis HLB chemistry, visit www.waters.com/oasis

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