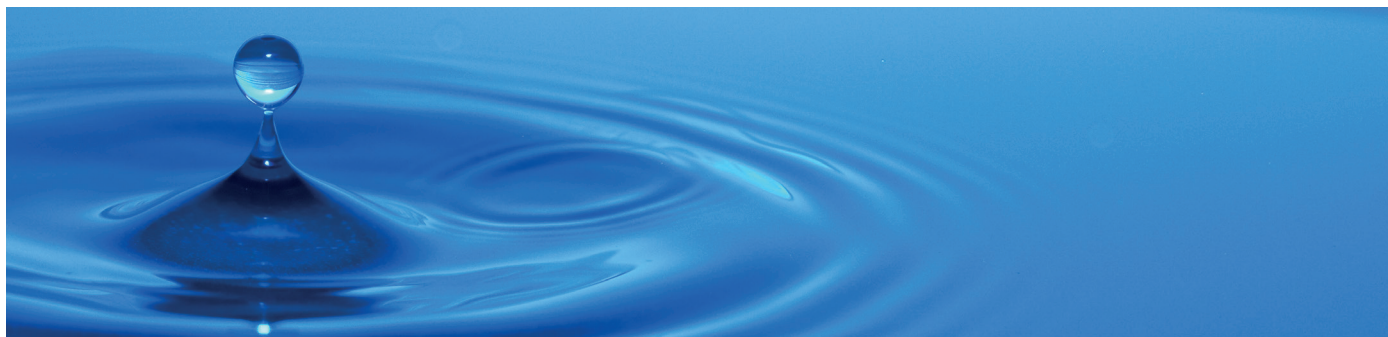


EVOLUTE® EXPRESS ABN On-line SPE Cartridges

For Integrated Sample Preparation and Analysis



EVOLUTE® EXPRESS ABN is a high purity, polymeric sorbent suitable for extraction of a broad range of acidic, basic and neutral analytes. EVOLUTE EXPRESS ABN is now available in on-line cartridge format.



An optimized combination of non-polar (hydrophobic) and polar (hydrophilic) interactions result in a versatile sorbent for extraction of a broad range of compounds encountered in routine environmental analysis. Because EVOLUTE® EXPRESS ABN is totally water wettable, it will never become de-conditioned, even if it runs dry. It does not need to be stored in solvent after use, and is a great alternative to C18 and PLRP type materials.

Biotage EVOLUTE EXPRESS ABN on-line cartridges combine these unique sorbent characteristics with the convenience of fully automated SPE.

Typical Applications

- » Pharmaceuticals
- » Personal care products
- » General organics
- » Acidic, basic and neutrals

EVOLUTE® EXPRESS ABN On-line SPE Cartridges

Nominal Particle Size	20 µm
Pore Size	40 Å
Surface area	400 m ² /g
pH Stability	1–14
Recommended Flow Rates	1–4 mL/min (typically 2–3 mL/min for loading, <1 mL/min during backflush/separation)
Maximum Operating Pressure	4000 psi

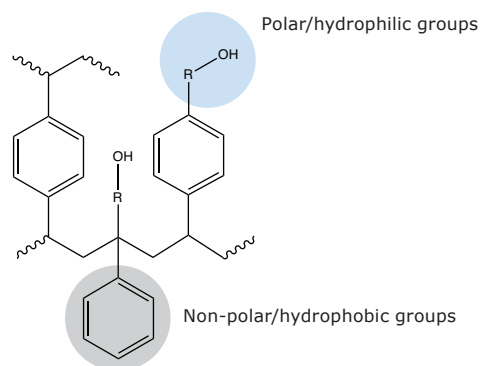


Figure 1. Structure of wettable EVOLUTE® EXPRESS ABN sorbent.

Recommended Starting Conditions

SPE load mobile phase	0–5% aq (v/v) acetonitrile with 0.1% formic acid
SPE elution/transfer mobile phase	5–100% aq (v/v) acetonitrile with 0.1% formic acid

Ordering Information

Part Number	Description	Quantity
OSPE-620-32150	EVOLUTE® EXPRESS ABN On-line SPE cartridge 30 x 2.1 mm	1

Method Development Hints and Tips

- » To increase recovery of acidic analytes, acidify the sample using formic acid or hydrochloric acid
- » To increase the recovery of basic analytes, add ammonium hydroxide to basify the sample
- » If sample has a high particulate content, consider filtration prior to extraction
- » EVOLUTE® EXPRESS ABN has an optimized pore size and EVOLUTE EXPRESS ABN on-line SPE columns will maintain performance for >200 injections per cartridge (matrix dependent).

See technical note PPS424 for additional guidance on on-line SPE-LC-MS/MS method development.



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 www.biotage.com

Part Number: PPS423

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