

Supel[™] Genie Online SPE Cartridges

HybridSPE phase chemistry for phospholipid removal

For use on LC systems for fully automated sample preparation and analysis

- Automation saves time, decreases costs, and eliminates human error
- Clean samples extend analytical column life, decrease instrument downtime, and deliver more accurate and reproducible data
- HybridSPE[®] phase – for complete elimination of phospholipid contaminants

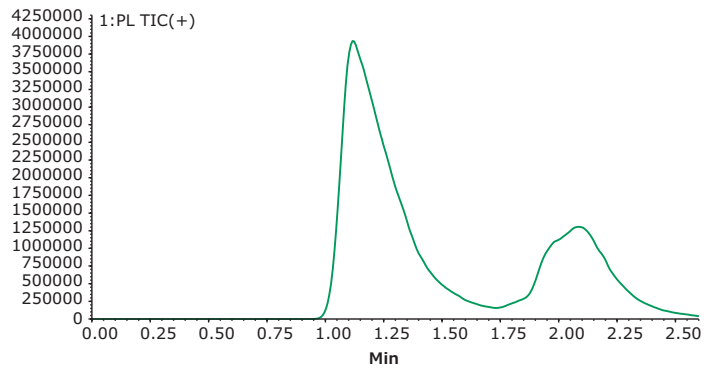
Automated phospholipid removal

- This innovative chemistry can effectively separate hydrophobic analytes (such as vitamins) from phospholipids, whereas competing phospholipid removal chemistries cannot



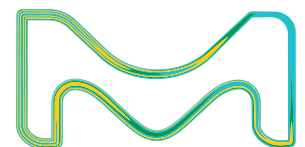
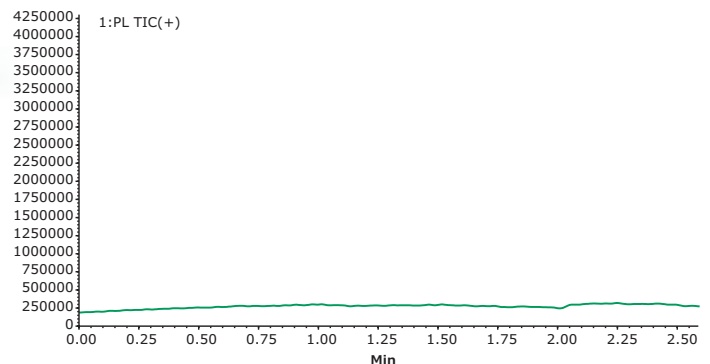
Phospholipids are a major concern for LC-MS analysis of small molecules in biological matrices as they are a primary component of all cell membranes. They are therefore present in all biological sample matrices including serum, plasma and whole blood and can be a problem in LC-MS analysis because they often co-elute and ionize along with the analytes of interest. This co-elution results in ion suppression (an erroneous decrease) of the mass spec signal that can cause variability and impact LC-MS result accuracy. Phospholipid contamination also ruins the ability to visualize analytes of interest as they can elute unpredictably, causing large contamination peaks (see chromatogram, top right).

Phospholipids in Plasma Sample without Supel[™] Genie HybridSPE[®] Online Cartridge (1st injection)



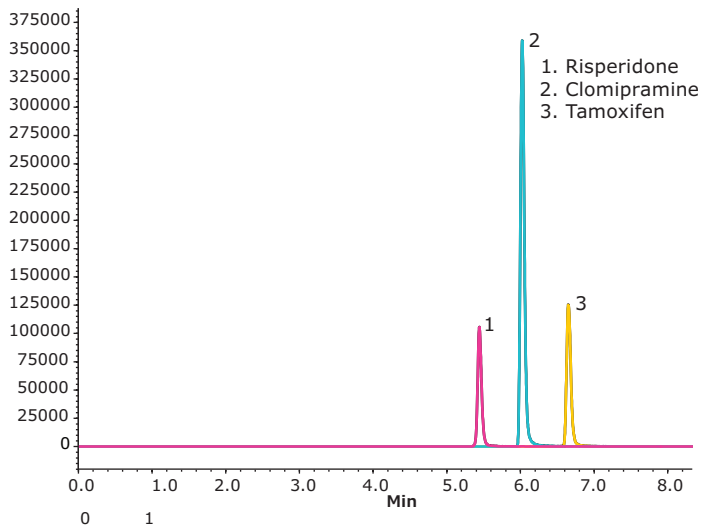
Supel[™] Genie HybridSPE[®] Online Cartridges completely remove phospholipid contamination for a clean baseline with no interference peaks.

Phospholipids in Plasma Sample with Supel[™] Genie HybridSPE[®] Online Cartridge (120th injection)

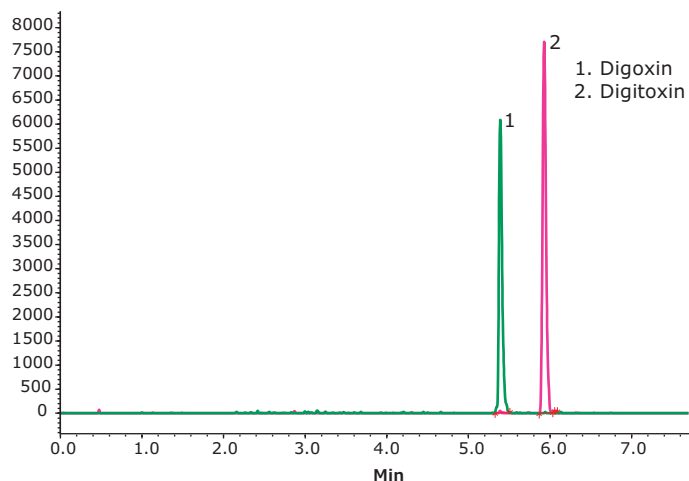


Supel™ Genie Online SPE Offers Versatility; Our HybridSPE® Cartridges Work with Basic, Polar, and Non-Polar Compounds

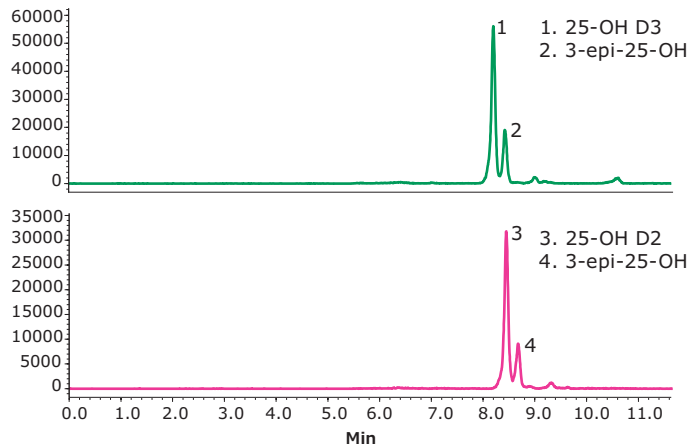
LC-MS Chromatogram of Set-1: Basic Analytes after Supel™ Genie HybridSPE® Cleanup



LC-MS Chromatogram of Set-2: Digoxin and Digitoxin (Polar Neutral Analytes) after Supel™ Genie HybridSPE® Cleanup



LC-MS Chromatograms of Set-3: Vitamin D2 and D3 Metabolites (Non-Polar Analytes) after Supel™ Genie HybridSPE® Cleanup



Supel™ Genie Online SPE offers clean samples for narrow and symmetric chromatographic peaks, low and clean baselines, and no ion suppression effects.

Description	Cat. No.
Starter Kit Supel™ Genie HybridSPE® Online SPE	55324-U
Supel™ Genie HybridSPE® Online SPE Cartridges, pk of 2	55326-U
Supel™ Genie HybridSPE® Online SPE Cartridges, pk of 6	55327-U

We also offer C8 and RP-Amide phase chemistries for reversed-phase extraction of a wide range of analytes

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