

Introduction

VertiSep™ Families

VertiSep™ columns are manufactured to the highest standards of quality and reproducibility with our technical expertise for the best columns, the best applications and the best technical support.

VertiSep™ families include both silica-based and polymer-based for reversed-phase, normal-phase, HILIC, ion-exchange and ion-exclusion chromatography.

To help select the appropriate column for your application, we describe key column families and highlight unique phases within these families. The most important factor is analysis speed, column bleed, pH stability, resolution and selectivity, VertiSep™ families offer you a column to suit your application.



| VertiSep™ Families | Characteristics | Applications |
|----------------------|---|--|
| Silica-Based | | |
| VertiSep™ Integral | <ul style="list-style-type: none"> New 2.6µm Core-Shell particle Fast analysis Ultra-high resolution > 200,000 Compatible with Standard HPLC | <ul style="list-style-type: none"> Compounds required gradient separation Fast applications high resolution applications by standard HPLC |
| VertiSep™ pHnEDURE | <ul style="list-style-type: none"> Hybrid particle Long life outside pH 2-8 Low bleed for LC/MC | <ul style="list-style-type: none"> Compounds required acidic mobile phase Compounds required basic mobile phases LC/MS applications |
| VertiSep™ UPS | <ul style="list-style-type: none"> Premium quality columns, MS compatible Ultra-high pure silica eliminates column bleeds and peak tailing for acidic or basic compounds High surface area offers high performance | <ul style="list-style-type: none"> Compounds required gradient separation Compounds that are difficult to separation like basic drugs, organic acids and polar compounds |
| VertiSep™ AQS | <ul style="list-style-type: none"> Stable from 100% organic to 100% aqueous No phase collapse Long column life | <ul style="list-style-type: none"> Hydrophilic or polar compounds like biomolecules, metabolites, oligosaccharides, amino acids, small peptides, nucleotides and organic acids. |
| VertiSep™ HCS | <ul style="list-style-type: none"> Highest carbon loading silica-based column for highest degree of hydrophobicity Long column life for aggressive mobile phases | <ul style="list-style-type: none"> Organic compounds that have similar structures Nucleosides, Nucleotides, Alkaloids |
| VertiSep™ BDS | <ul style="list-style-type: none"> Base-deactivated silica eliminates silanol effect and peak tailing for basic compounds Direct replacement of Hypersil® BDS at lower price | <ul style="list-style-type: none"> Basic drugs |
| VertiSep™ EPS | <ul style="list-style-type: none"> Polar-enhanced silica-based columns Unique selectivity for polar analytes | <ul style="list-style-type: none"> Basic drugs, Polar organics Positional isomers |
| VertiSep™ BIO | <ul style="list-style-type: none"> Large-pore phases for large molecules | <ul style="list-style-type: none"> Life science and proteomic applications. |
| VertiSep™ GES | <ul style="list-style-type: none"> Broad pH stability and high efficiency Economic price | <ul style="list-style-type: none"> General applications Preparative applications |
| VertiSep™ IRS | <ul style="list-style-type: none"> Irregular silica-based columns The alternative to Waters® µBondapak™ | <ul style="list-style-type: none"> General applications Preparative applications |
| VertiSep™ MMS | <ul style="list-style-type: none"> Multifunctional silica-based columns | <ul style="list-style-type: none"> Specific application recommended by USP. |
| VertiSep™ SPS | <ul style="list-style-type: none"> Spherical silica-based columns The alternative to Waters® Spherisorb® | <ul style="list-style-type: none"> General applications |
| Polymer-Based | | |
| VertiSep™ PRP | <ul style="list-style-type: none"> Polymer-based columns | <ul style="list-style-type: none"> Applications at pH range from 1-14 |
| VertiSep™ SUGAR | <ul style="list-style-type: none"> Cationic cross-linked PSDVB columns for ion-exchange chromatography | <ul style="list-style-type: none"> Sugars or carbohydrates using only water as mobile phase |
| VertiSep™ OA | <ul style="list-style-type: none"> Hydrogen ionic cross-linked PSDVB columns for ion-exclusion chromatography | <ul style="list-style-type: none"> Organic acids and alcohols |
| VertiSep™ IC | <ul style="list-style-type: none"> Hydrophilic copolymer columns for anion or cations by ion-exchange chromatography | <ul style="list-style-type: none"> Strong anions, weak anions Moni-, divalent cations, transition metals and organic amine ions |