

Solid Phase Extraction and Flash Chromatography



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Liquid Chromatography



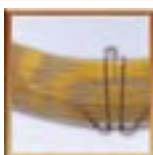
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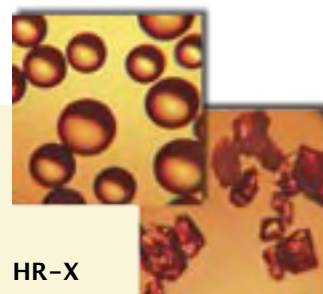
New products for SPE and filtration

Sample Preparation

CHROMABOND® HR-X innovative polymer phase for pharmaceutical applications

- state-of-the-art spherical polymer
 - broad spectrum of application with special suitability for enrichment of pharmaceuticals from biological matrices
 - ideal flow properties due to low content of particulate matter
- optimised pore structure and high specific surface
 - high loadability and outstanding elution properties
 - low solvent consumption
 - rapid, economical analyses
- high-purity adsorbent material
 - allows highest reproducibility with extremely low blind values
 - reliable analyses at ultra trace level
 - no method adaptation for new batches necessary

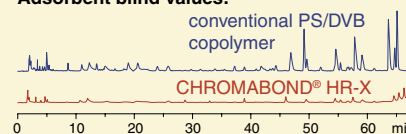
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HR-X

conventional PS/DVB copolymer

Adsorbent blind values:



ask for a free sample

CHROMABOND® BIGpacks

- the new value packs
- 250 cartridges economically packed
- save effort and money

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CHROMAFIL® Xtra

syringe filters

- syringe filters labelled for method validation and certification
- Xtra:** imprint for direct identification of the membrane type, diameter and pore size
- Xtra:** new, low bleeding PP housing
- Xtra:** colour-free plain polypropylene, no risk of interaction with colour pigments

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ask for a free sample

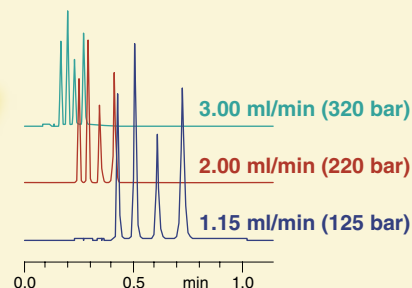


NUCLEODUR® phases with 1.8 µm particles

for increased separation efficiency

- ⬢ decrease of analysis time (ultra fast HPLC)
- ⬢ shorter columns with high separation efficiency
- ⬢ significant improvement of resolution
- ⬢ increased detection sensitivity
- ⬢ suitable for LC/MS due to low bleeding characteristics
- ⬢ all NUCLEODUR® premium phases are available in 1.8 µm: C₁₈ Gravity, C₈ Gravity, C₁₈ Isis, C₁₈ Pyramid, Sphinx RP
- ⬢ NUCLEODUR® 1.8 µm particles are fractionated to limit the increase in back pressure

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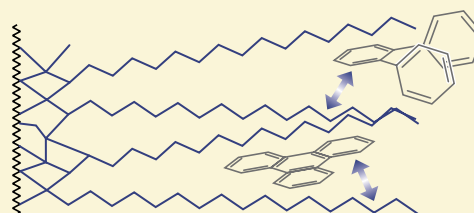


NUCLEODUR® C₁₈ Isis

phase with high steric selectivity

- ⬢ C₁₈ phase with special polymeric, crosslinked surface modification · USP L1
- ⬢ exceptional steric selectivity
- ⬢ outstanding surface deactivation
- ⬢ suitable for LC/MS due to low bleeding characteristics
- ⬢ pH stability 1 - 10
- ⬢ broad range of applications: steroids, (*o,p,m*-) substituted aromatics, fat-soluble vitamins

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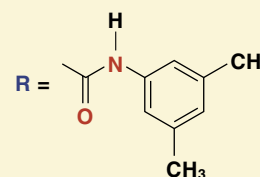
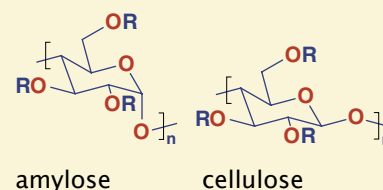


NUCLEOCEL ALPHA NUCLEOCEL DELTA

enantiomer separation based on amylose and cellulose derivatives

- ⬢ chiral selector amylose tris-(3,5-dimethylphenylcarbamate), USP L51 or cellulose tris-(3,5-dimethylphenylcarbamate), USP L40
- available particle sizes:
5 µm for NUCLEOCEL ALPHA, 5 and 10 µm for NUCLEOCEL DELTA
- available as normal phase and reversed phase columns
- ⬢ recommended applications: pharmaceutically active compounds, chiral pollutants (e.g. herbicides, PCB), chiral compounds in food (dyes, pre-servatives), chiral catalysts and bioorganic compounds

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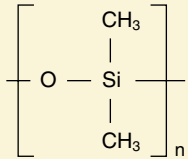




New phases for GC

OPTIMA® 1 MS Accent

100 % dimethylpolysiloxane



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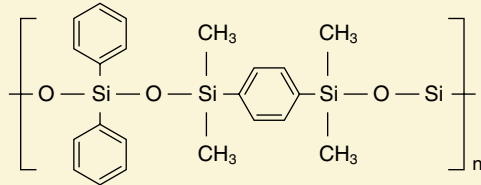
increased sensitivity due to an unmatched low background level

USP G1 / G2 / G38

- selectivity equal to OPTIMA® 1
- lowest column bleed**, nonpolar phase, ideal for ion trap and quadrupol MS detectors
- perfect inertness for basic compounds
- application areas: all-round phase for environmental analyses, trace analyses, EPA methods, pesticides, PCB, food and drug analyses
- similar phases: Ultra-1, DB-1 MS, HP-1 MS, Rtx-1 MS, Equity-1, AT-1 MS, VF-1 MS, CP-Sil 5 CB MS

OPTIMA® 5-MS Accent

5 type silarylene phase



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increased sensitivity due to an unmatched low background level

- chemically bonded, cross-linked silarylene phase with polarity similar to a 5 % diphenyl – 95 % dimethylpolysiloxane phase
- lowest column bleed**, nonpolar phase, suited for ion trap and quadrupol MS detectors
- application areas: all-round phase for environmental analyses, trace analyses, EPA methods, pesticides, PCB, food and drug analyses
- similar phases: DB-5 MS, HP-5 MS, Ultra-2, Equity-5, CP-Sil 8 CB low bleed/MS, Rtx-5SIL-MS, Rtx-5 MS, 007-5 MS, BPX5, MDN-5S, AT-5 MS, VF-5 MS
- USP G27 / G36

OPTIMA® XLB

silarylene phase



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- chemically bonded, cross-linked silarylene phase, optimised silarylene content for lowest column bleed
- lowest column bleed**, nonpolar phase, suited for ion trap and quadrupol MS detectors
- perfect inertness for basic compounds
- application areas: ultra low bleed phase, highly selective for environmental and trace analyses, pesticides
- best phase for PCB separations**
- similar phases: DB-XLB, Rtx-XLB, MDN-12, VF-XMS