

Polymer-coating type core-shell technology



CAPCELL CORE

Core-shell, the new particle geometry of HPLC

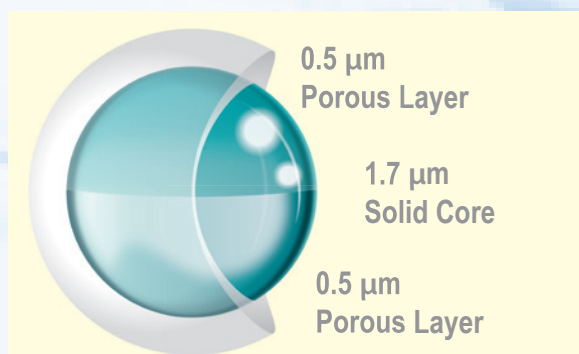
Since 1987 Shiseido has been pursuing the best LC separation by creating new chemistry on the surface of powdery materials.

Fusing Shiseido's chemistry and a new particle geometry together, the beginning of new LC separation is ready to present!
Polymer-coating type Core-shell technology

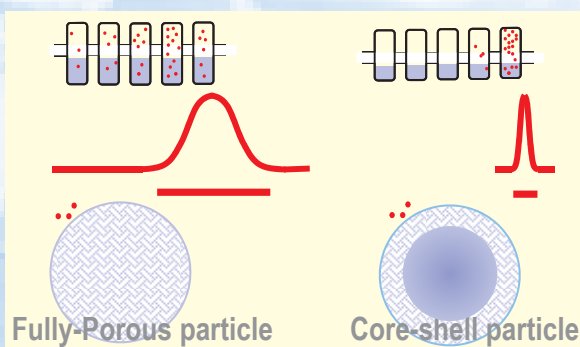


CAPCELL CORE

Polymer-coated core-shell particle



High efficiency at fast analysis



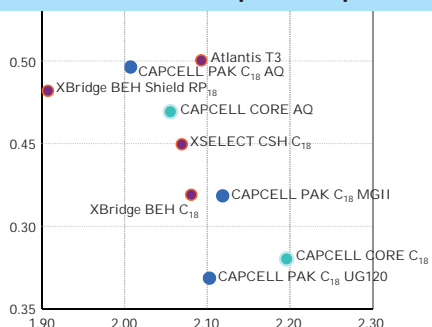
Shiseido's challenge,
Begin the Beginning !

CAPCELL CORE AQ

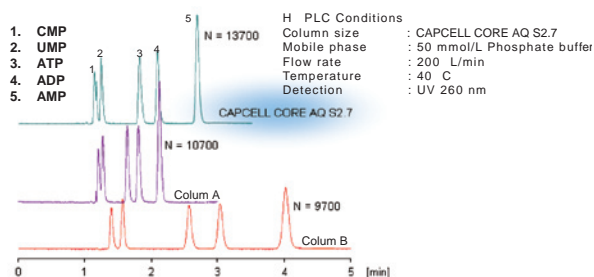
CAPCELL CORE AQ is C₂₇ column developed for improved retention of high hydrophilic compounds under 100% aqueous mobile phase at fast analysis.

Function group	Micro pore diameter (nm)	Particle size (μm)	Specific surface area (m ² /g)	C%	Operational pH range	Pressure resistance (MPa)
C ₂₇	16	2.7	90	4	2-10	60

Characterization ~Optimized parameter~



under 100% buffer



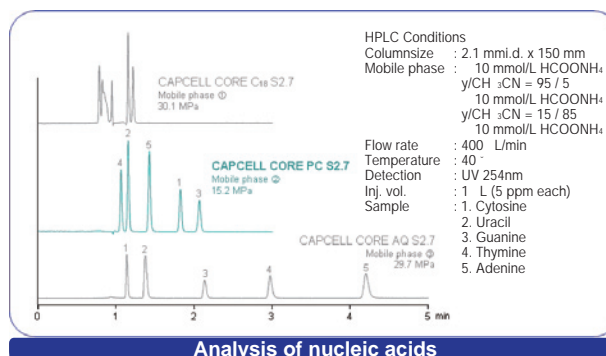
CAPCELL CORE PC

CAPCELL CORE PC is developed by sophisticated bonding of phosphorylcholine group (PC). The PC column provides HILIC-mode retention of very polar compounds.

Function group	Micro pore diameter (nm)	Particle size (μm)	Specific surface area (m ² /g)	C%	Operational pH range	Pressure resistance (MPa)
PC	9	2.7	150		2-7.5	60

Synergy of PC technology and CAPCELL CORE

CAPCELL CORE PC retains high hydrophilic compounds under organic solvent-rich mobile phase where C₁₈ has no retention. Core-shell type PC is a good alternative for UHPLC (sub 2- μm) HILIC mode and provides improved LC-MS for high hydrophilic compounds.

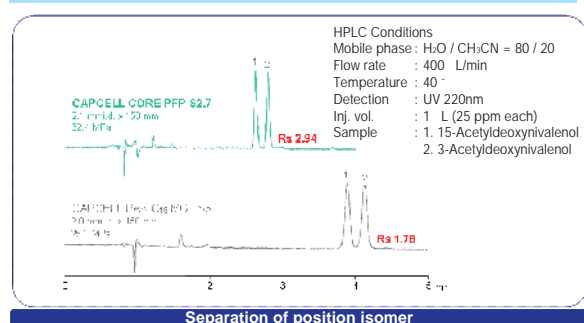


Analysis of nucleic acids

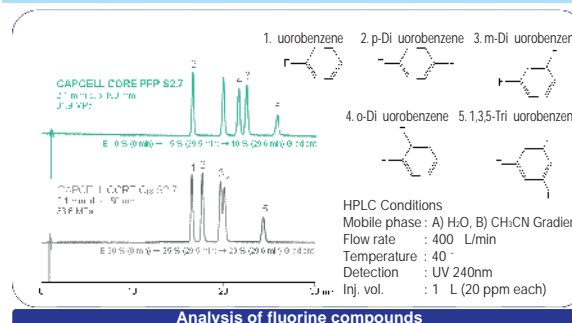
CAPCELL CORE PFP

CAPCELL CORE PFP is a novel phase with function group of penta uorophenyl group. It provides improved separation capacity by specific retention of fluorine compounds and position isomers.

Function group	Micro pore diameter (nm)	Particle size (μm)	Specific surface area (m ² /g)	C%	Operational pH range	Pressure resistance (MPa)
PFP	9	2.7	150	5	2-9	60



Separation of position isomer



Analysis of fluorine compounds

