

AUTHORIZED DISTRIBUTOR

MZ-Analysentechnik GmbH, Barcelona-Allee 17• D-55129 Mainz

Tel +49 6131 880 96-0, Fax +49 6131 880 96-20

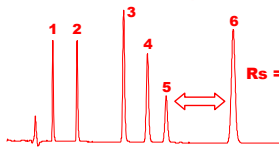
e-mail: info@mz-at.de, www.mz-at.de

CAPCELL CORE

CAPCELL CORE is a polymer-coating type core-shell column. You can comfortably use CAPCELL CORE with minimized undesirable second effect of the silanol group by applying polymer-coating on the surface of core-shell base material.

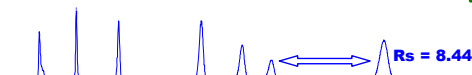
CAPCELL CORE C₁₈

CAPCELL CORE C₁₈ S2.7
(4.6 mm i.d. x 100 mm)

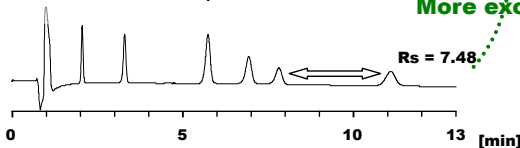


[HPLC Conditions]	
Mobile phase	A) 0.1 vol% H ₃ PO ₄ B) 0.1 vol% H ₃ PO ₄ , CH ₃ CN A / B = 50 / 50
Flow rate	: 1.0 mL/min
Temperature	: 40 °C
Detection	: UV 240 nm
Sample	1. Sulindac 5 ppm 2. Ketoprofen 5 ppm 3. Flurbiprofen 5 ppm 4. Diclofenac 20 ppm 5. Ibuprofen 100 ppm 6. Mefenamic acid 30 ppm
Inj. vol.	: 1 µL

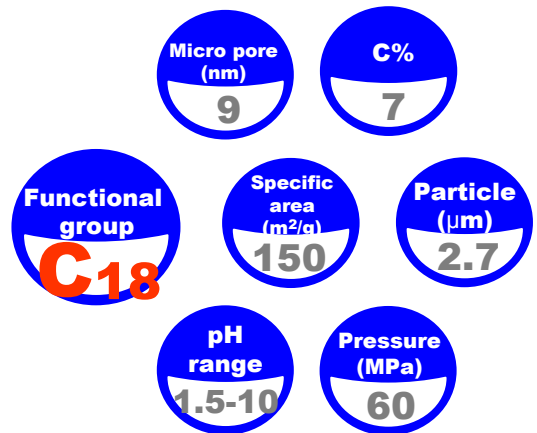
Fully-porous particle C₁₈ 3µm
(4.6 mm i.d. x 100 mm)



Fully-porous particle C₁₈ 5µm
(4.6 mm i.d. x 100 mm)



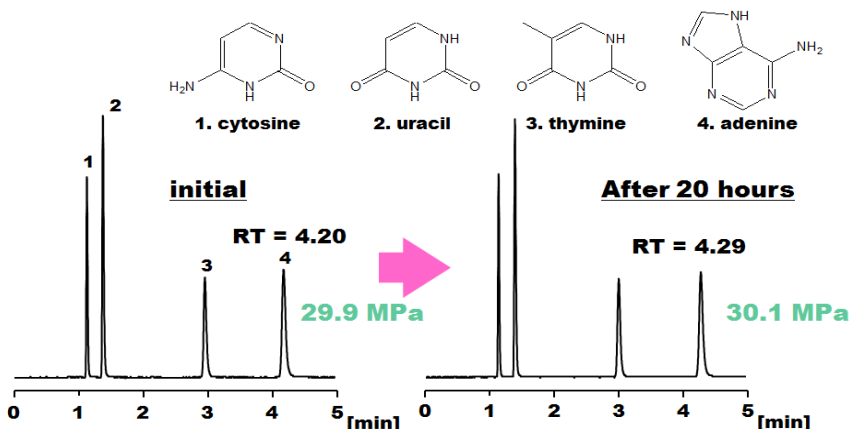
Improvement Resolution & More excellent peak shape



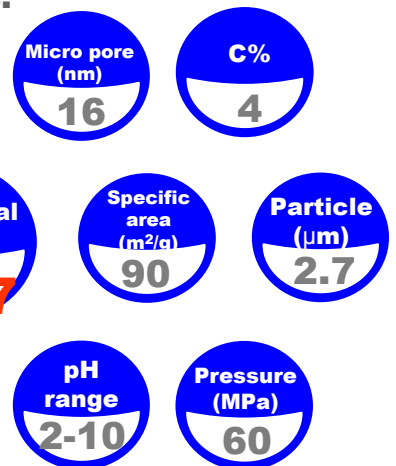
Two micro pore size types, **MP** (16 nm) and **WP** (30 nm), are also added to the CAPCELL CORE C₁₈ series.

The two products provides different separation selectivity for analysis of proteins and peptides.

CAPCELL CORE AQ



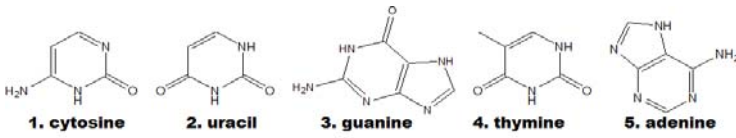
[HPLC Conditions]	
Column	: CAPCELL CORE AQ S2.7 ; 2. 1 mm i.d. x 150 mm
Mobile phase	: 10 mmol/L HCOONH ₄
Flow rate	: 400 µL/min
Temperature	: 40 °C
Detection	: UV 254 nm
Inj. vol.	: 1 µL (50 ppm each)



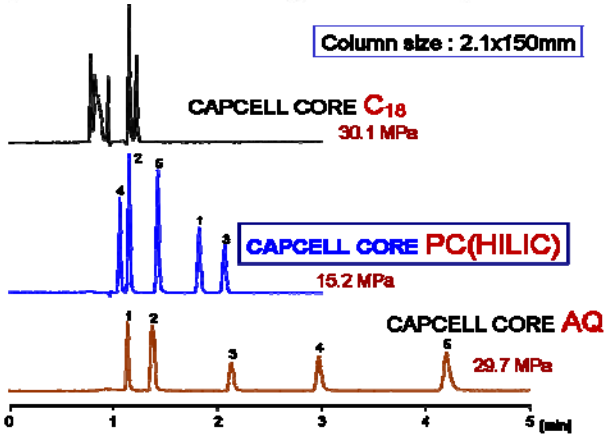
Reversed phase C27 for high hydrophilic compounds

Applicable in 100% aqueous mobile phase to improve the retention of high polar compounds.

CAPCELL CORE PC



Column size : 2.1x150mm



[HPLC Conditions]

Mobile phase
 CAPCELL CORE C₁₈ : 10 mmol/L HCOONH₄ / CH₃CN = 95 / 5
 CAPCELL CORE PC : 10 mmol/L HCOONH₄ / CH₃CN = 15 / 85
 CAPCELL CORE AQ : 10 mmol/L HCOONH₄
 Flow rate : 400 μ L / min Temperature : 40 $^{\circ}$ C
 Detection : UV 254 nm Inj. Vol. : 1 μ L

Micro pore (nm)
9

Mode
HILIC

Functional group
PC

Specific area (m²/g)
150

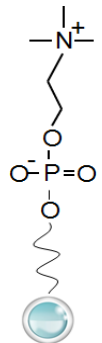
Particle (μ m)
2.7

pH range
2-7.5

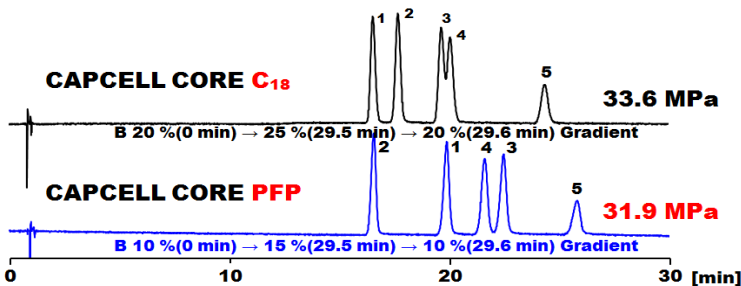
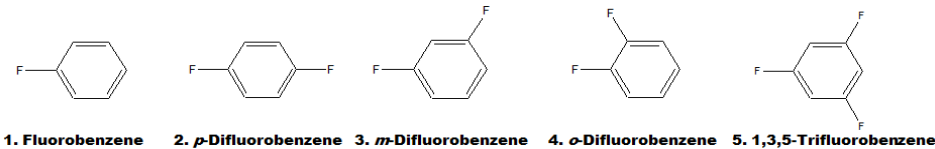
Pressure (MPa)
60

HILIC mode column by phosphorylcholine(PC) group

Well balanced retention of very polar compounds with excellent reproducibility



CAPCELL CORE PFP



Micro pore (nm)
9

C%
5

Functional group
PFP

Specific area (m²/g)
150

Particle (μ m)
2.7

pH range
2-9

Pressure (MPa)
60

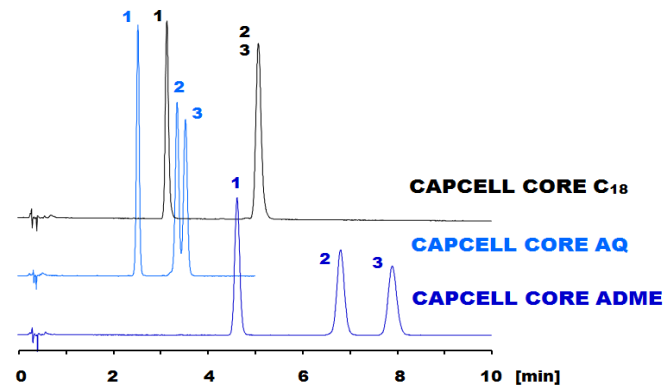
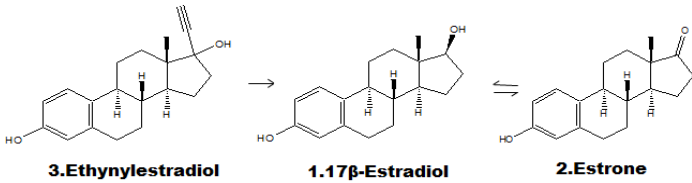
New separation with Pentafluorophenyl group

Improved separation capacity with specific retention of fluorine compounds and position isomers

[HPLC Conditions]

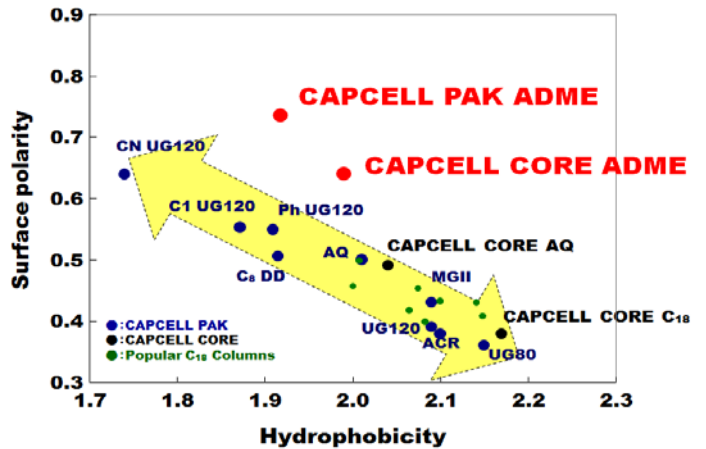
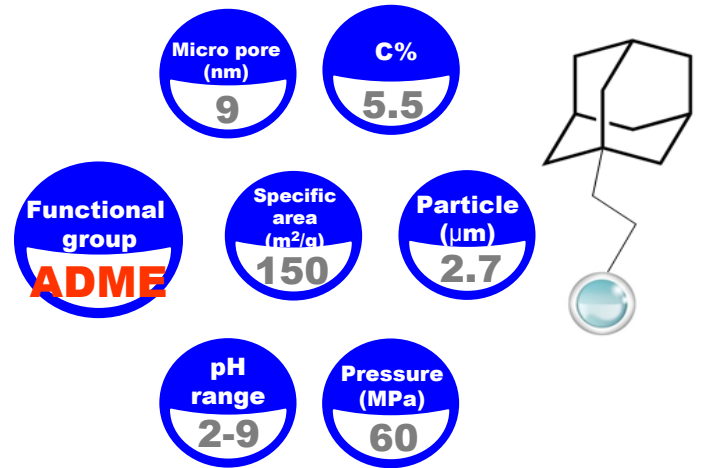
Column : CAPCELL CORE C₁₈ S2.7 ; 2.1 mm i.d. x 150 mm
 CAPCELL CORE PFP S2.7 ; 2.1 mm i.d. x 150 mm
 Mobile phase : A) H₂O B) CH₃CN
 Flow rate : 400 μ L/min
 Temperature : 40 $^{\circ}$ C
 Detection : UV 240 nm
 Inj. vol. : 1 μ L (20 ppm each)

CAPCELL CORE ADME

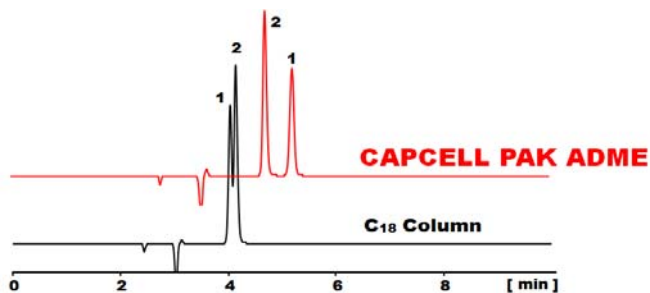
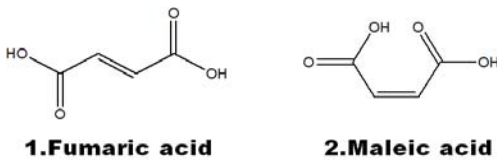


[HPLC Conditions]

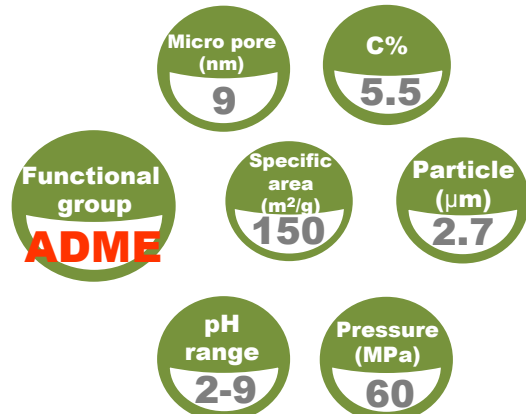
Column size : 2.1 mm i.d. x 50 mm
 Mobile phase : H₂O / CH₃CN = 70 / 30
 Flow rate : 400 μL/min
 Temperature : 40 °C
 Detection : PDA 220 nm
 Inj. vol. : 3 μL (50 ppm each)



CAPCELL PAK ADME



Column : 4.6 mm i.d. x 250 mm
 Mobile Phase: 10 mmol/L HCOONH₄ (pH 3, HCOOH) / CH₃OH = 95 / 5
 Flow Rate : 1 mL/min
 Temperature : 40 °C
 Detection : UV 220 nm
 Inj. Vol. : 5 μL
 Sample : 50 ppm



ADME (Adamantyl) group provides the unique separation with mobile phase same as C₁₈ column.

Without changing mobile phase, ADME group can be strongly retained high-polarity compounds such as metabolites and excellently be separated target samples and metabolites.

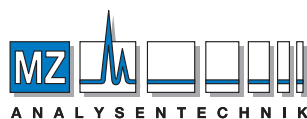
We prepare ADME group by core-shell type and fully-porous particle type.

CAPCELL CORE list

Product Name	Product Number	Length (mm)	I. D. (mm)
CAPCELL CORE C18	51097	50	1.0
	51099	100	1.0
	51100	150	1.0
	51101	20	2.1
	51102	35	2.1
	51103	50	2.1
	51104	75	2.1
	51105	100	2.1
	51106	150	2.1
	51107	20	3.0
	51108	35	3.0
	51109	50	3.0
	51110	75	3.0
	51111	100	3.0
	51112	150	3.0
	51114	50	4.6
	51115	75	4.6
	51116	100	4.6
51117	150	4.6	
CAPCELL CORE MP	51212	35	2.1
	51213	50	2.1
	51214	75	2.1
	51215	100	2.1
	51216	150	2.1
	51221	100	3.0
	51222	150	3.0
	51224	50	4.6
	51225	75	4.6
	51226	100	4.6
51227	150	4.6	
CAPCELL CORE WP	51232	35	2.1
	51233	50	2.1
	51234	75	2.1
	51235	100	2.1
	51236	150	2.1
	51241	100	3.0
	51242	150	3.0
	51244	50	4.6
	51245	75	4.6
	51246	100	4.6
51247	150	4.6	
CAPCELL CORE AQ	51161	20	2.1
	51162	35	2.1
	51163	50	2.1
	51164	75	2.1
	51165	100	2.1
	51166	150	2.1
	51171	100	3.0
	51172	150	3.0
	51174	50	4.6
	51175	75	4.6
51176	100	4.6	
51177	150	4.6	
CAPCELL CORE PC	51121	20	2.1
	51122	35	2.1
	51123	50	2.1
	51124	75	2.1
	51125	100	2.1
	51126	150	2.1
	51129	50	3.0
	51130	75	3.0
	51131	100	3.0
	51332	150	3.0
	51134	50	4.6
	51135	75	4.6
	51136	100	4.6
	51137	150	4.6

Product Name	Product Number	Length (mm)	I. D. (mm)
CAPCELL CORE PFP	51141	20	2.1
	51142	35	2.1
	51143	50	2.1
	51144	75	2.1
	51145	100	2.1
	51146	150	2.1
	51154	50	4.6
	51155	75	4.6
	51156	100	4.6
	51157	150	4.6
CAPCELL CORE ADME	51197	50	1.0
	51198	75	1.0
	51199	100	1.0
	51200	150	1.0
	51182	35	2.1
	51183	50	2.1
	51184	75	2.1
	51185	100	2.1
	51186	150	2.1
	51188	50	3.0
	51189	75	3.0
	51190	100	3.0
	51191	150	3.0
	51193	50	4.6
	51195	100	4.6

				Particle size (µm)
CAPCELL PAK ADME	92181	20	2.1	3
	92182	35	2.1	
	92183	50	2.1	
	92184	75	2.1	
	92185	100	2.1	
	92186	150	2.1	
	92192	35	4.6	
	92193	50	4.6	
	92194	75	4.6	
	92195	100	4.6	
	92196	150	4.6	
	91181	20	2.1	5
	91182	35	2.1	
	91183	50	2.1	
	91184	75	2.1	
91185	100	2.1		
91186	150	2.1		
91187	250	2.1		
91194	35	4.6		
91195	50	4.6		
91196	75	4.6		
91197	100	4.6		
91198	150	4.6		
91199	250	4.6		
91179	250	10		
91180	250	20		



AUTHORIZED DISTRIBUTOR

MZ-Analysentechnik GmbH
 Barcelona-Allee 17 • D-55129 Mainz
 Tel +49 6131 880 96-0
 Fax +49 6131 880 96-20
 e-mail: info@mz-at.de
 www.mz-at.de