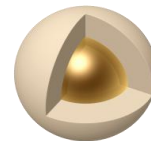


Sepsil Core C18-WP, RP-AQUA, C8, Phenyl, PFP, 2.6 μ m

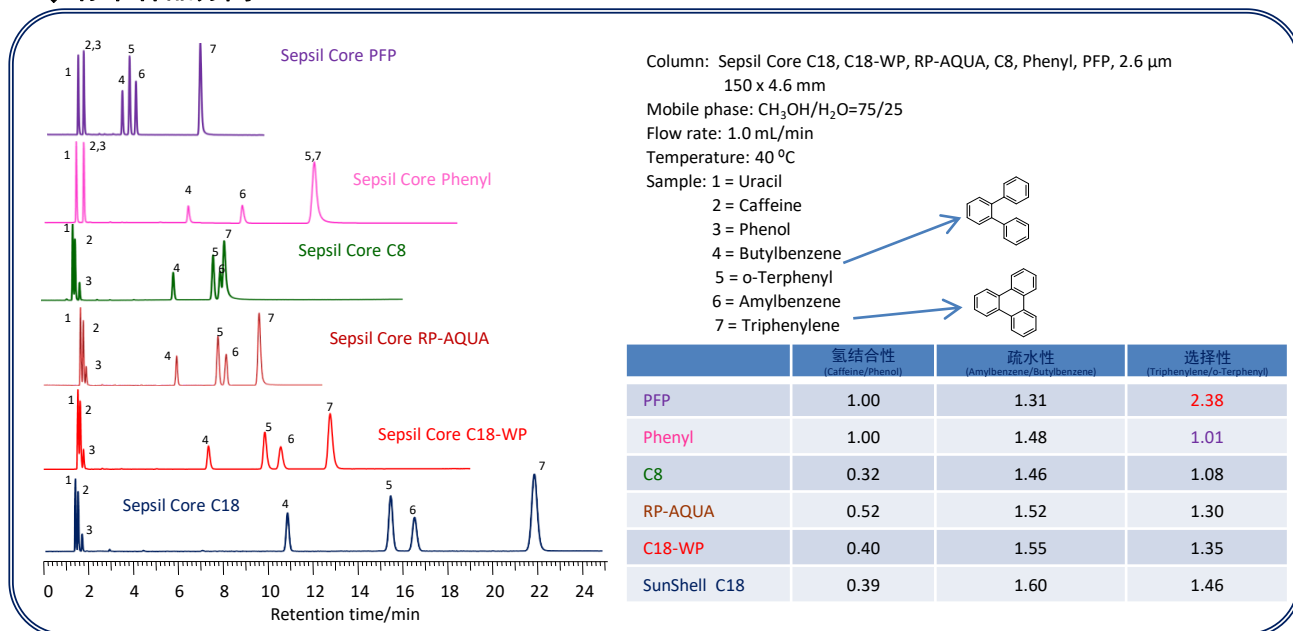
(Pentafluorophenyl)



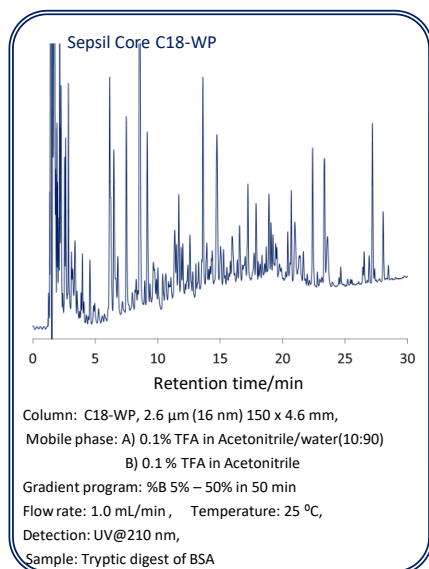
物理参数

	粒径	孔径	比表面积	含碳量	键合相	封尾	最大耐压	pH范围
Sepsil Core C18	2.6 μ m	9 nm	150 m ² /g	7%	C18	yes	60 MPa	1.5 - 10
Sepsil Core C18-WP	2.6 μ m	16 nm	90 m ² /g	5%	C18	Yes	60 MPa	1.5 - 10
Sepsil Core RP-AQUA	2.6 μ m	16 nm	90 m ² /g	4%	C28	Yes	60 MPa	2 - 8
Sepsil Core C8	2.6 μ m	9 nm	150 m ² /g	4.5%	C8	Yes	60 MPa	1.5 - 9
Sepsil Core Phenyl	2.6 μ m	9 nm	150 m ² /g	5%	Phenylhexyl	Yes	60 MPa	1.5 - 9
Sepsil Core PFP	2.6 μ m	9 nm	150 m ² /g	4.5%	Pentafluorophenyl	Yes	60 MPa	2 - 8

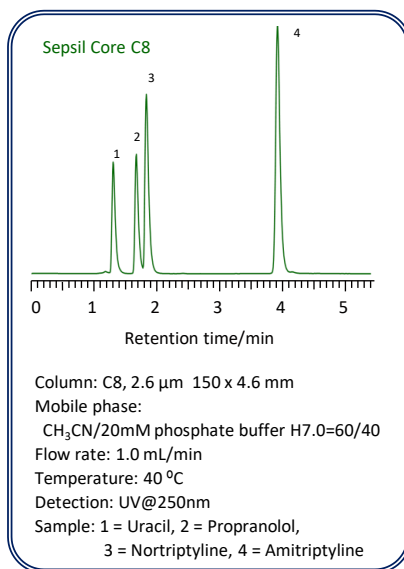
标准样品分离



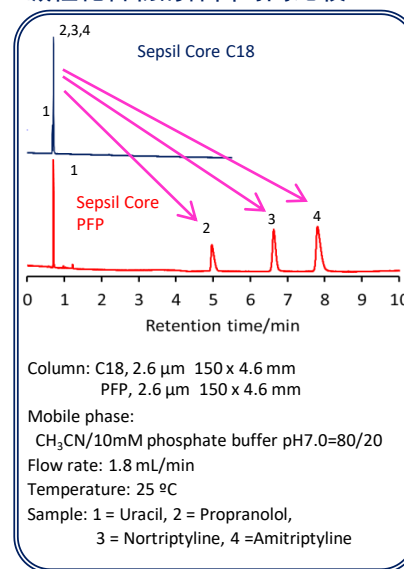
多肽分离



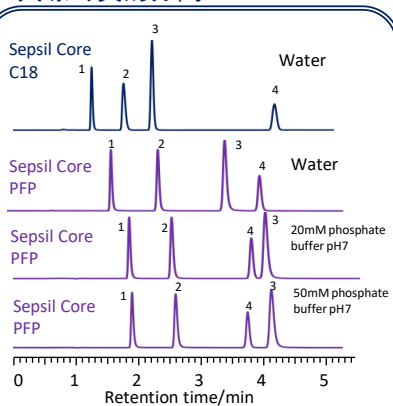
阿米替林分离



碱性化合物的保留时间比较

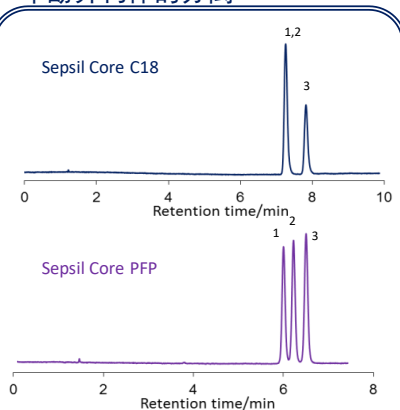


黄嘌呤类的分离



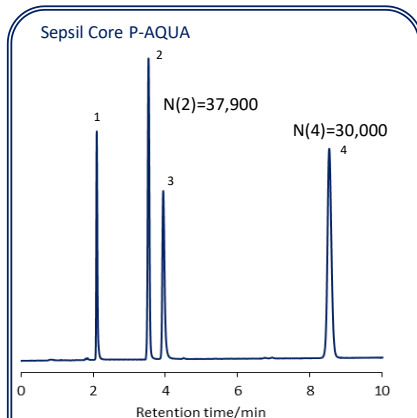
Column: C18, PFP, 2.6 μm 150 x 2.1 mm
 Mobile phase: $\text{CH}_3\text{OH}/\text{water}$ or buffer=30/70
 Flow rate: 0.3 mL/min
 Temperature: 25 $^\circ\text{C}$
 Detection: UV@250nm
 Sample: 1 = Theobromine
 2 = Theophylline
 3 = Caffeine
 4 = Phenol

甲酚异构体的分离



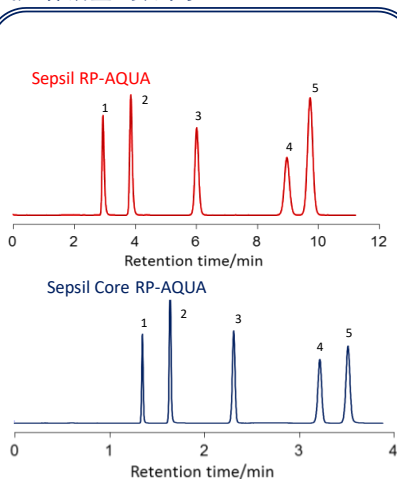
Column: C18, PFP, 2.6 μm 150 x 4.6 mm
 Mobile phase: $\text{CH}_3\text{OH}/\text{H}_2\text{O}=40/60$
 Flow rate: 1.0 mL/min
 Temperature: 25 $^\circ\text{C}$
 Detection: UV@250nm
 Sample: 1 = p-Cresol
 2 = m-Cresol
 3 = o-Cresol

核苷酸的分离



Column: RP-AQUA, 2.6 μm 150 x 4.6 mm
 Mobile phase: 20mM Phosphate buffer pH6.0
 Flow rate: 1.0 mL/min
 Temperature: 25 $^\circ\text{C}$
 Detection: UV@250nm
 Sample: 1 = 5'-GDP
 2 = 5'-ATP
 3 = 5'-ADP
 4 = 5'-AMP

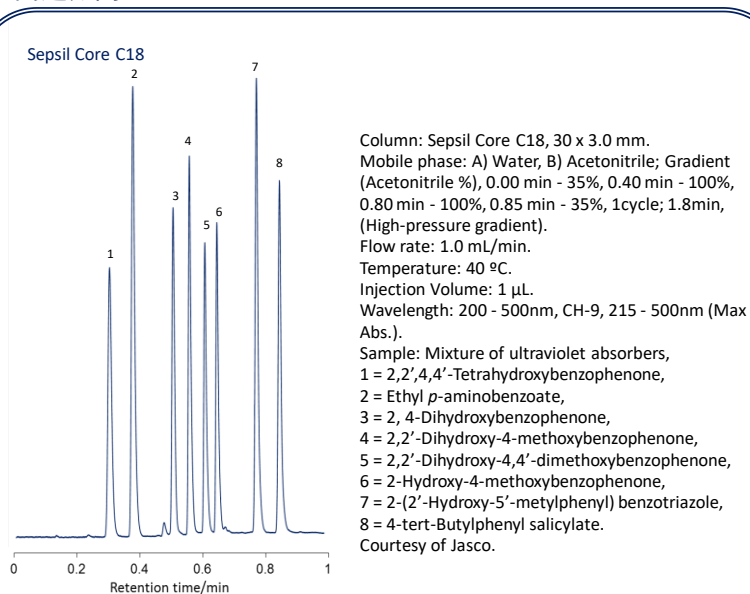
核酸碱基的分离



Column:
 Sepsil RP-AQUA, 5 μm 150 x 4.6 mm
 Sepsil Core RP-AQUA, 2.6 μm 150 x 4.6 mm
 Mobile phase:
 10mM Phosphate buffer pH7.0
 Flow rate: 1.0 mL/min for Sunniest
 1.5 mL/min for SunShell
 Temperature: 24 $^\circ\text{C}$
 Sample: 1 = Cytosine, 2 = Uracil, 3 = Thymidine,
 4 = Uridine, 5 = Thymine

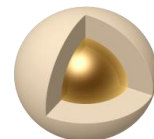
	Plate(5)	Resolution (4,5)
Sunnest	14,000	1.98
SunShell	30,000	3.79

高速分离



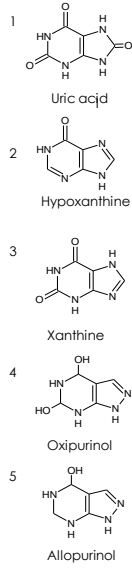
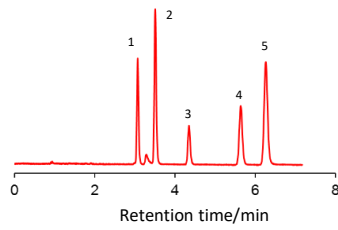
Column: Sepsil Core C18, 30 x 3.0 mm.
 Mobile phase: A) Water, B) Acetonitrile; Gradient (Acetonitrile %), 0.00 min - 35%, 0.40 min - 100%, 0.80 min - 100%, 0.85 min - 35%, 1cycle; 1.8min, (High-pressure gradient).
 Flow rate: 1.0 mL/min.
 Temperature: 40 $^\circ\text{C}$.
 Injection Volume: 1 μL .
 Wavelength: 200 - 500nm, CH-9, 215 - 500nm (Max Abs.).
 Sample: Mixture of ultraviolet absorbers,
 1 = 2,2',4,4'-Tetrahydroxybenzophenone,
 2 = Ethyl *p*-aminobenzoate,
 3 = 2, 4-Dihydroxybenzophenone,
 4 = 2,2'-Dihydroxy-4-methoxybenzophenone,
 5 = 2,2'-Dihydroxy-4,4'-dimethoxybenzophenone,
 6 = 2-Hydroxy-4-methoxybenzophenone,
 7 = 2-(2'-Hydroxy-5'-methylphenyl) benzotriazole,
 8 = 4-tert-Butylphenyl salicylate.
 Courtesy of Jasco.

峰宽只有1秒钟

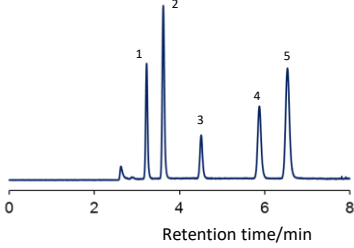


嘌呤类似物的分离

10 mM ammonium acetate (pH 4.7)



50 mM NH₄H₂PO₄

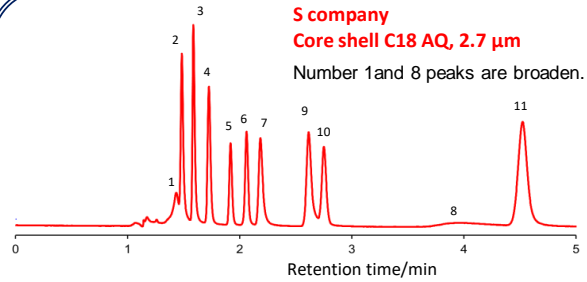


Column: Sepsil Core RP-AQUA, 2.6 μm 100 x 4.6 mm
Mobile phase: 50 mM NH₄H₂PO₄ or 10 mM ammonium acetate (pH 4.7)
Flow rate: 1.0 mL/min
Temperature: Ambient
Detection: UV@250 nm
Sample: 1 = Uric acid, 2 = Hypoxanthine, 3 = Xanthine, 4 = Oxipurinol, 5 = Allopurinol

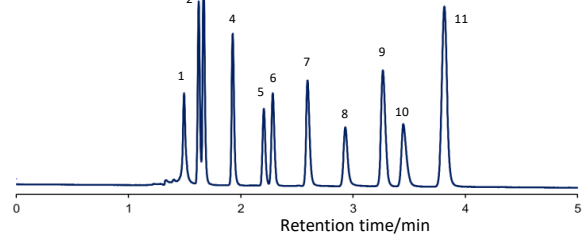
有机酸的分离

S company
Core shell C18 AQ, 2.7 μm

Number 1 and 8 peaks are broaden.

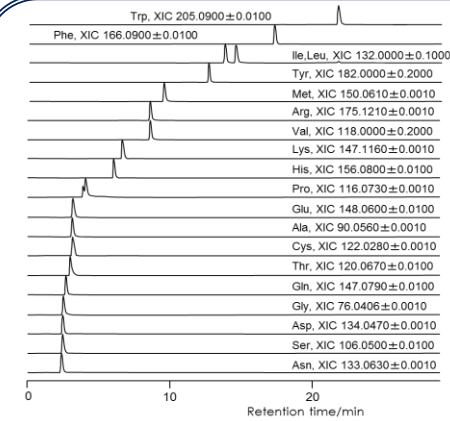


Sepsil Core RP-AQUA, 2.6 μm

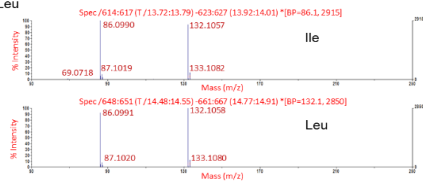


Column dimension: 150 x 4.6 mm
Mobile phase: 0.1% H₃PO₄
Flow rate: 1.0 mL/min
Temperature: 40 °C
Detection: UV@210nm
Sample:
1 = Oxalic acid, 2 = Tartaric acid, 3 = Formic acid, 4 = Malic acid, 5 = Lactic acid, 6 = Acetic acid, 7 = Diglycolic acid, 8 = Maleic acid, 9 = Citric acid, 10 = Succinic acid, 11 = Fumaric acid.

氨基酸的分离(LC/MS)

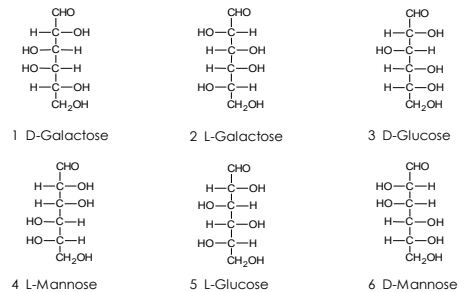
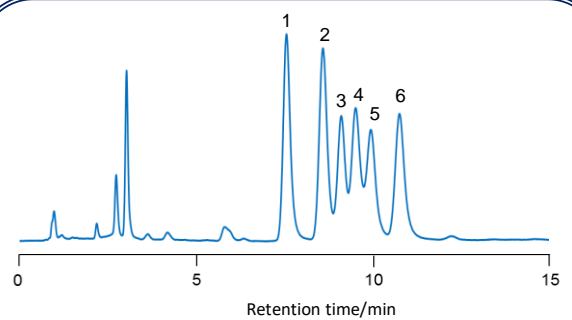


Mass spectra of Ile and Leu



Column: Sepsil Core RP-AQUA, 2.6 μm, 150 x 2.1 mm
Mobile phase: A) 5 mM HFBA, B) 5 mM HFBA in CH₃CN / H₂O (9/1)
%B 0% to 20% in 20 min (HFBA: Heptafluorobutyric acid)
Flow rate: 0.2 mL / min
Temperature: 40 °C
Detection: MS (NanoFrontier LD) ESI Positive, Extracted ion chromatogram (EIC)

色氨酸衍生单糖的分离



Column: Sepsil Core RP-AQUA, 2.6 μm 100 x 4.6 mm
Mobile phase: 5 mM Phosphate and 25 mM tetraborate (pH 9.6)
Flow rate: 1.0 mL/min
Temperature: 20 °C
Detection: UV@220 nm
Sample: Monosaccharides derivatized with L-Tryptophan