

Mix mode column for amino acid and peptides

MCIGEL™ CHK40/C04

What's MCIGEL™ CHK40/C04 ?

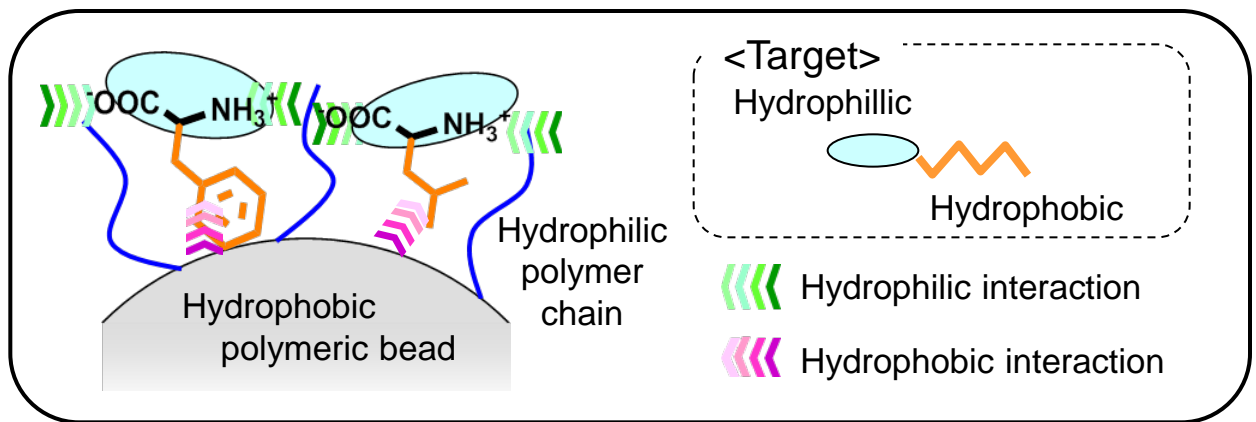
Mix mode column packed with slightly functionalized polymeric media

Column Dimension (mm)	Column Format	Base Material	Particle Size (μm)
Φ4.6 × 150	SUS	St-DVB	4

High Performance for Polar Molecule Separation

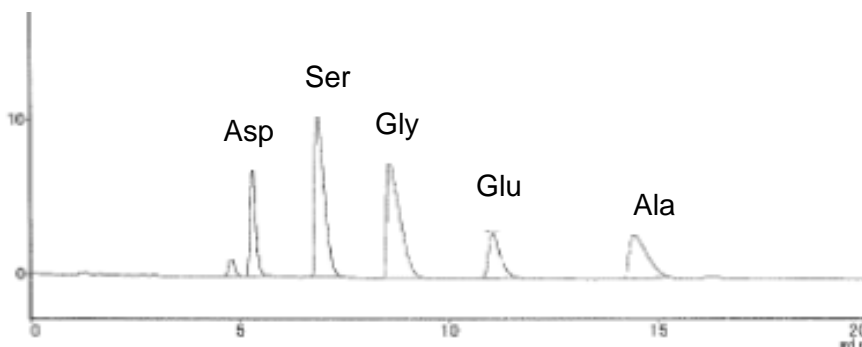
ex. Polar amino acids, nucleic acids, small peptide, etc.

Separation Mechanism



Application Data

◆ Polar Amino Acids



Column: MCI GEL™ CHK40/C04
Φ4.6 × 150mm
FlowRate: 1.0mL/min
Eluent: 0.5mM H₂PO₄
Temp.:60°C
Ditection:UV 210nm
Injection:20μL

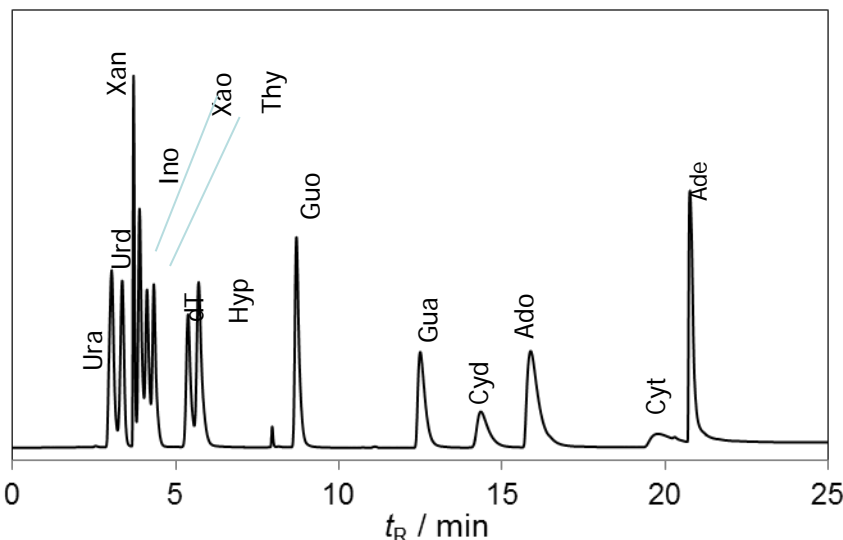


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◆ Nucleobases and Nucleosides

provided by Prof. Yokoyama of Yokohama National University



FlowRate: 0.8mL/min

Eluent:

A : 19 mM H₃PO₄ / 1 mM NaH₂PO₄ / 5.0% ACN

B : 10 mM Na₂HPO₄ / 30% ACN

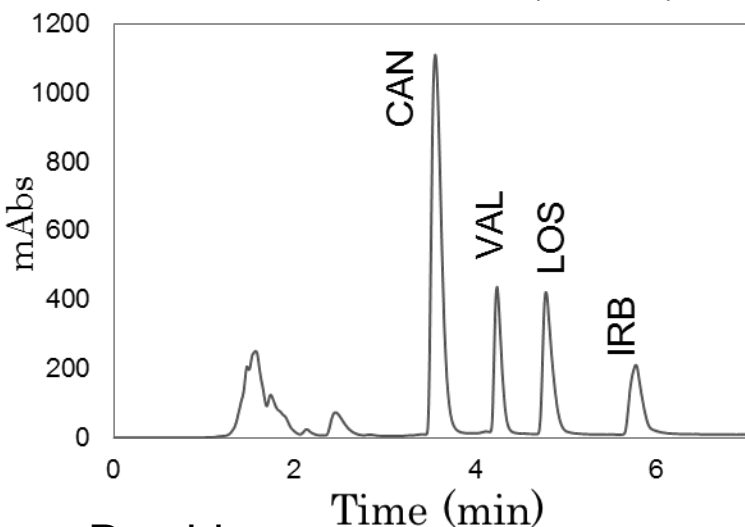
Gradient Condition

Time (min)	%A	%B
0.0→4.00	90	10
4.00→10.00	50→35	50→65
10.00→17.00	35→10	65→90
17.00→20.00	10	90
20.01→	90	10

Ditection: UV260nm Injection: 20μL

◆ Sartans

provided by Prof. Yokoyama of Yokohama National University



Chromatographic conditions

Flow Rate: 1.0 mL/min

Solvent A : 10 mM NaH₂PO₄ + 0.2 mM NaHPO₄ / 25% ACN

Solvent B : 10 mM NaH₂PO₄ + 0.2 mM NaHPO₄ / 40% ACN

Temp.: 40°C Ditection: UV210nm Injection: 20μL

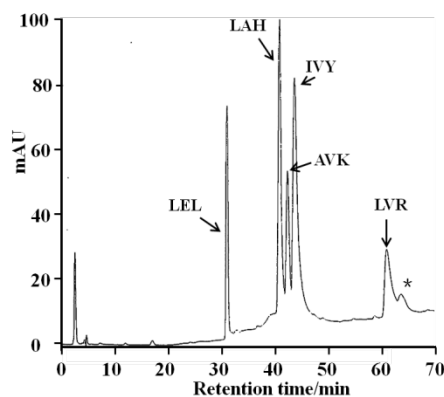
Gradient Condition

Time (min)	%A	%B
0-0.50	100	0
0.51-2.00	50	50
2.01-	90	10

Sample: CAN : Cndesartan VAL : Valsartan
LOS : Losartan IRB : Irbesartan

◆ Peptides

provided by Prof. Matsui of Kyushu University



Conditions

Flow rate: 0.5 ml/ min

Temp: 50°C

Detector: UV 220 nm

Mobile phase A: 10% methanol in 5 mM NaH₂PO₄ (pH 4.8)

Mobile phase B: 50% methanol in 5 mM Na₂HPO₄ (pH 8.9)

Gradient Condition

A→B 60min linear



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