

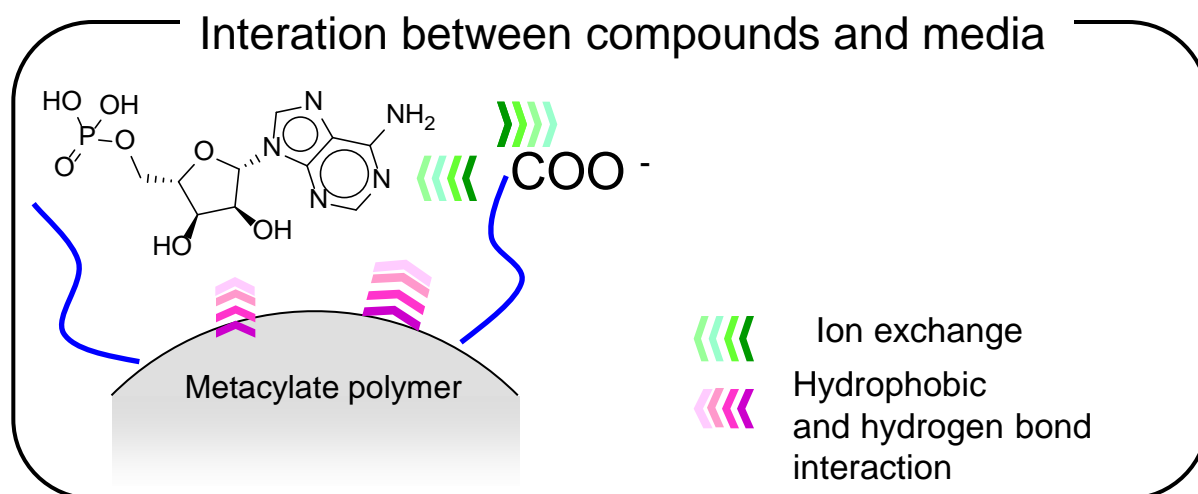
Mix mode column for Nucleic acids and Organic acids

MCIGEL™ CHK45/C05

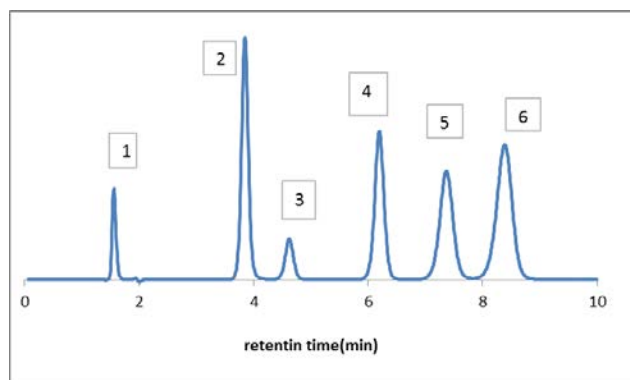
MCIGEL™ CHK45/C05 is a mix mode column; the multiple interactions moderately occurring between the solute and the resin surface, that is., electrostatic, hydrophobic, polar, and/or further weak interactions.

Suitable for high-speed separations of biogenic cations as well as inorganic cations.

Column size	4.6mmφ × 150mm
Column material	SUS
Packing material	Methacrylate dicarboxylic acid type resin
Particle size	5 μm



◆ Nucleotides and relatide organic compounds



1: 5-CMP 2: Theophylline 3: Hippuric acid
4: Nicotinamide 5: Adenosine 6: p-hydroxy benzoic acid

Column: MCI GEL™ CHK45/C05

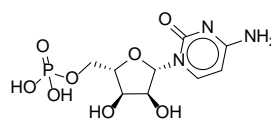
Φ4.6 × 150mm

FlowRate: 1.2mL/min

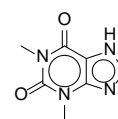
Eluent: : 8mM H₃PO₄ / 10% CH₃CN

Detection: UV254nm

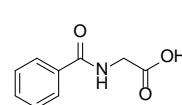
Injection: 10μL



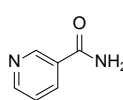
5-CMP



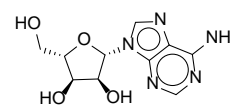
Theophylline



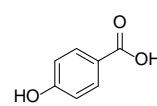
Hippuric acid



Nicotinamide



Adenosine



p-hydroxy benzoic acid

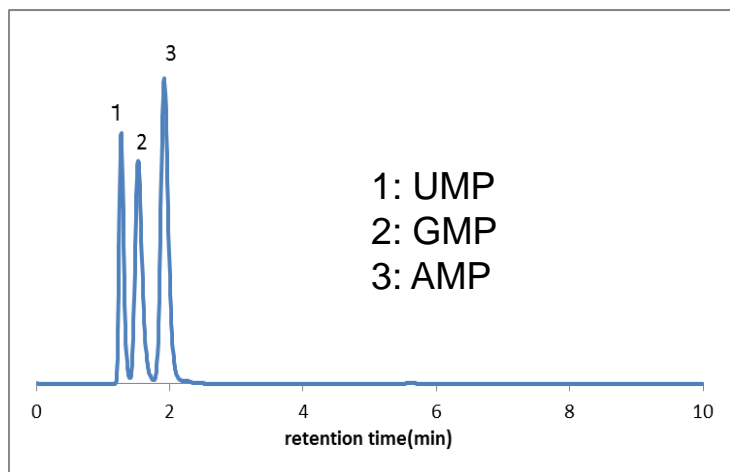
 MITSUBISHI CHEMICAL

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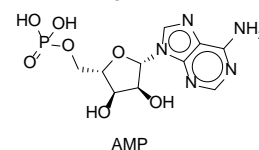
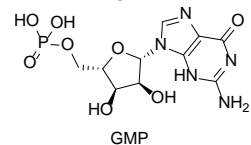
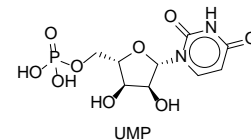
Column: MCI GEL™ CHK45/C05
 $\Phi 4.6 \times 150\text{mm}$

FlowRate: 1.2mL/min

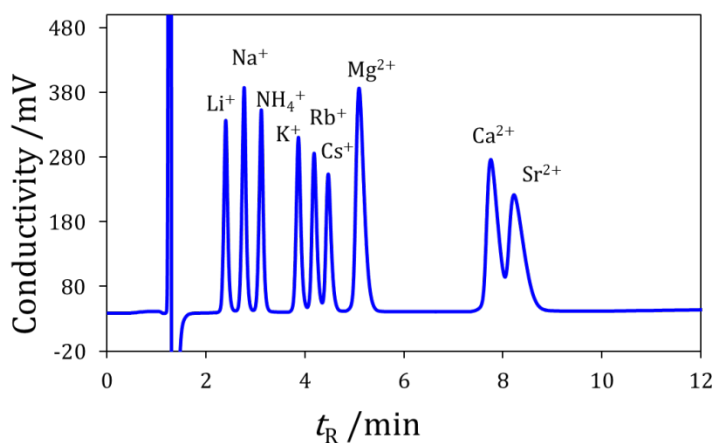
Eluent: : 3mM H₃PO₄

Detection: UV254nm

Injection: 10 μ L



◆ inorganic cations



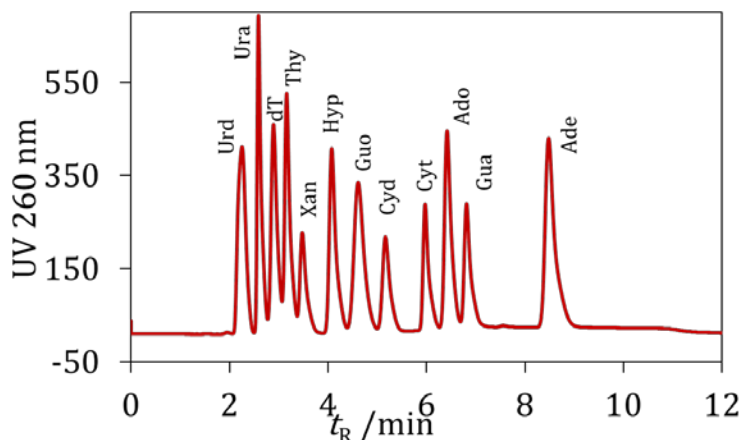
Column: MCI GEL™ CHK45/C05
 $\Phi 4.6 \times 150\text{mm}$

FlowRate: 1.2mL/min

Eluent: : 4mM H₃PO₄

Temp: 40C

◆ nucleobases and nucleosides



Chromatographic conditions

Solvent A : 10 mM H₃PO₄ /7% ACN

Solvent B : 20 mM H₃PO₄ /30% ACN

Temp : 35°C

Time (min)	Solvent A ^a (%)	Solvent B ^b (%)	Flow rate (mL/min)
0.0 → 1.0	100	0	1.0
1.1 → 3.5	100 → 30	0 → 70	1.0
3.6 → 4.0	30	70	1.0
4.1 → 5.0	30	70	1.0 → 1.2
5.1 → 8.0	30	70	1.2
8.1 → 9.0	100	0	1.2
9.1 →	100	0	1.0

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◆ Application data of various beer

