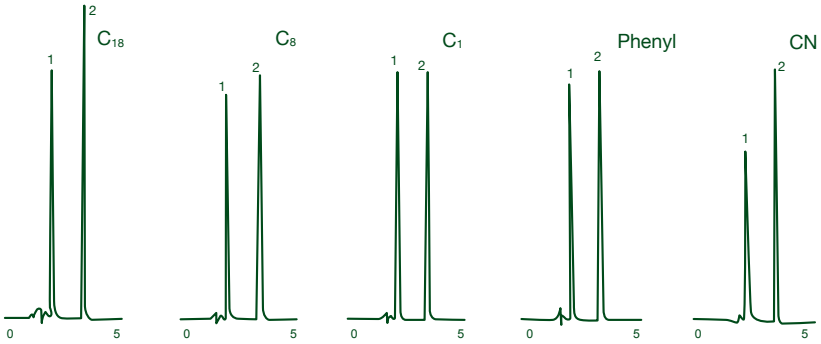
CAPCELL PAK UG (C_{18}, C_8, Ph, CN, NH_2, SCX)

The CAPCELL PAK UG type utilizes a high-purity silica with low metal impurity (<5ppm), that gives a fast separation of basic and polar compounds with sharp symmetrical peaks.

Excellent surface inertness

PYRIDINE/PHENOL TEST

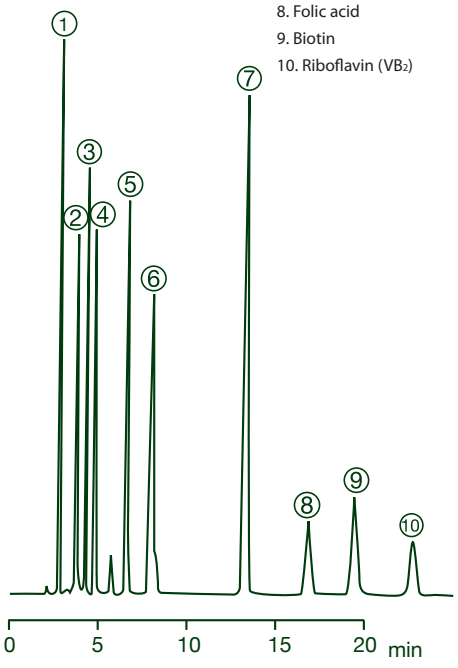
Column : CAPCELL PAK UG120 4.6mm i.d. x 150mm
Mobile Phase : CH_3CN/H_2O =30/70
Flow Rate : 1.0mL/min
Temperature : 40˚C
Detection : UV 254nm
Sample : 1.Pyridine
2.Phenol



C_{18} UG

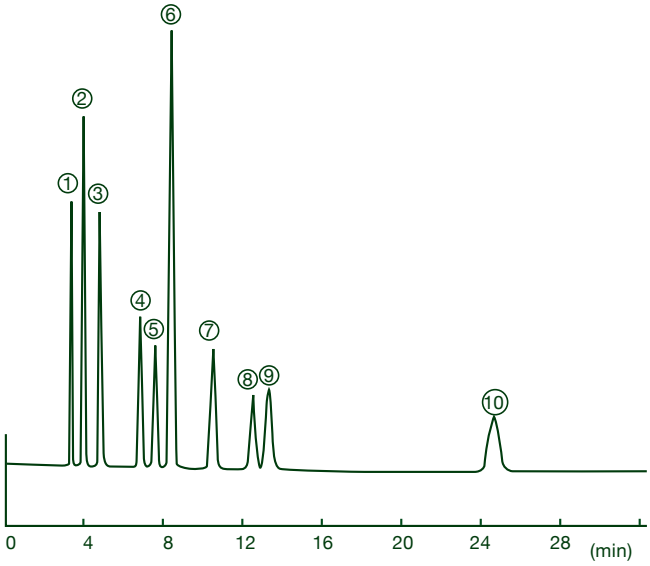
Water soluble vitamins

Column : CAPCELL PAK C_{18} UG120 S5 4.6mm i.d. x 150mm
Mobile Phase : (5mmol/L Sodium hexanesulfonate + 20mmol/L H_3PO_4, pH2.3) / CH_3CN = 91 / 9
Flow Rate : 1.0mL/min
Temperature : 40˚C
Detection : UV 210nm
Sample : 1. L-Ascorbic acid
2. Nicotinic acid
3. Nicotinamide
4. Sodium pantothenate
5. Pyridoxine hydrochloride
6. Riboflavin phosphate
7. Thiamine
8. Folic acid
9. Biotin
10. Riboflavin (VB_2)



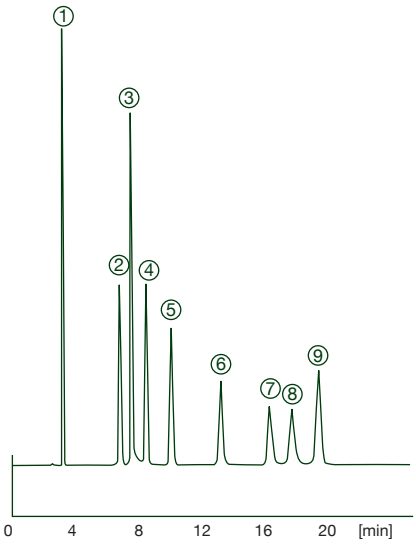
Antiseptics

Column : CAPCELL PAK C_{18} UG120 S5 4.6mm i.d. x 150mm
Mobile Phase : 0.05mol/L NaH_2PO_4, pH4.5 /MeOH / CH_3CN = 50 / 35 / 15, 4mmol/L Cetyltrimethyl ammonium chloride
Flow Rate : 1.0mL/min
Temperature : 40˚C
Detection : UV 235nm
Sample : 1. Methylparaben
2. p-Hydroxy benzoic acid
3. Ethylparaben
4. Dehydroacetic acid
5. n-Propylparaben
6. Sorbic acid
7. Benzoic acid
8. Iso-Butylparaben
9. n-Butylparaben
10. Salicylic acid



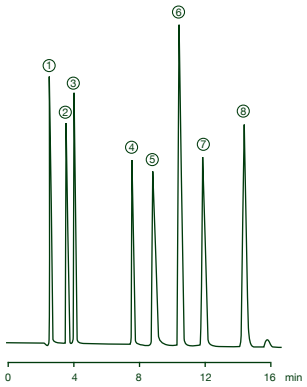
Acidic hair dyes

Column	: CAPCELL PAK C_{18} UG120 S5
	4.6mm i.d. x 150mm
Mobile Phase	: 50mmol/L Sodium 1-octanesulfonate /
	CH_3OH = 60 / 40 (pH2.5, H_3PO_4)
Flow Rate	: 1.0mL/min
Temperature	: 40˚C
Detection	: UV 280nm
Sample	: 1. Resorcin
	2. p-Aminophenol
	3. p-Nitro-o-phenylenediamine
	4. m-Aminophenol
	5. o-Aminophenol
	6. m-Phenylenediamine
	7. p-Phenylenediamine
	8. p-Toluenediaminosulfonate
	9. p-Amino-o-cresol



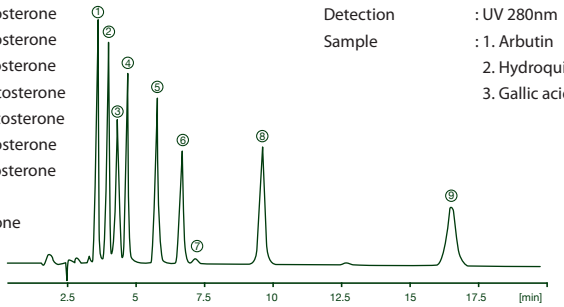
Ingredients of cold medicines

Column	: CAPCELL PAK C_{18} UG120 S5
	4.6mm i.d. x 150mm
Mobile Phase	: 0.05mol/L NaH_2PO_4 / CH_3CN =
	20 / 80 (pH2.5, H_3PO_4)
Flow Rate	: 1.0mL/min
Temperature	: 40˚C
Detection	: UV 280nm
Sample	: 1. Potassium guaiacolsulfonate
	2. Acetaminophen
	3. Caffeine
	4. Salicylamide
	5. Chlorpheniramine maleate
	6. Phenol(I.S.)
	7. Aspirin
	8. Ethenzamide



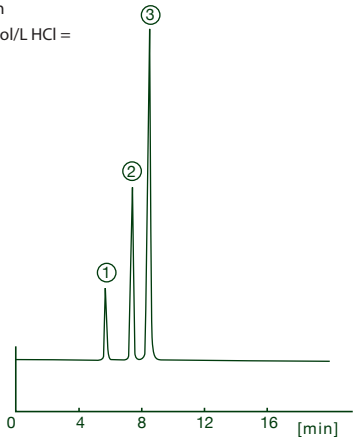
Metabolites of testosterone

Column	: CAPCELL PAK C_{18} UG120 S3
	4.6mm i.d. x 150mm
Mobile Phase	: H_2O / CH_3OH / THF = 55 / 38 / 7
Flow Rate	: 1.0mL/min
Temperature	: 40˚C
Detection	: UV 254nm
Sample	: 1. 6α-Hydroxytestosterone
	2. 7α-Hydroxytestosterone
	3. 6ß-Hydroxytestosterone
	4. 16α-Hydroxytestosterone
	5. 16ß-Hydroxytestosterone
	6. 2α-Hydroxytestosterone
	7. 2ß-Hydroxytestosterone
	8. Androsterone
	9. Methyltestosterone



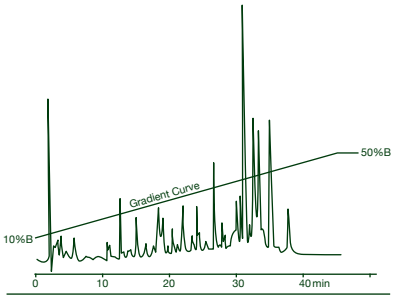
Active ingredients of bearberry leaf

Column	: CAPCELL PAK C_{18} UG120 S5
	4.6mm i.d. x 150mm
Mobile Phase	: H_2O / CH_3OH / 0.1mol/L HCl =
	94 / 5 / 1
Flow Rate	: 0.6mL/min
Temperature	: 20˚C
Detection	: UV 280nm
Sample	: 1. Arbutin
	2. Hydroquinone
	3. Gallic acid



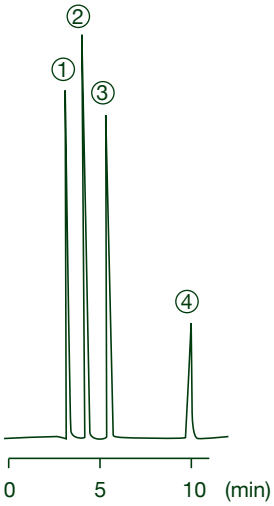
Tryptic digest of casein (peptide mapping)

Column	: CAPCELL PAK C_{18} UG120 S5
	1.0 mm i.d. x 250 mm
Mobile Phase	: A : 0.1vol% TFA, H_2O
	B : 0.1vol% TFA, CH_3CN
	B 10% - 50% (45min) Gradient
Flow Rate	: 70µL/min
Temperature	: 35˚C
Detection	: UV 210nm
Sample	: 1. Tryptic digest of casein



C_8 UG120

Suitable for quick separation of polar compounds, which used to be retained too long in other C_{18} phases.



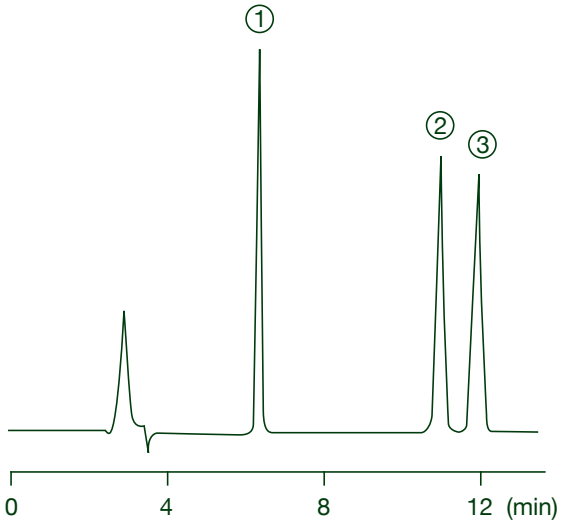
Column	: CAPCELL PAK C_8 UG120 S5
	4.6mm i.d. x 150mm
Mobile Phase	: 0.1vol% H_3PO_4 / CH_3OH = 70 / 30
Flow Rate	: 1.0mL/min
Temperature	: 40˚C
Detection	: UV 254nm
Sample	: 1. Hydroquinone
	2. Resorcin
	3. Catechol
	4. Phenol

Ph UG120

Used for obtaining a different selectivity for analytes possessing an aromatic moiety.

Antiepileptics

Column	: CAPCELL PAK Ph UG120 S5
	4.6mm i.d.x 150mm
Mobile Phase	: { 50mmol/L Na_2HPO_4 +
	50mmol/L KH_2PO_4 (pH6.8) } /
	CH_3CN = 70 / 30
Flow Rate	: 1.0mL/min
Temperature	: 40˚C
Detection	: UV 254nm
Sample	: 1. Phenobarbital
	2. Carbamazepine
	3. Phenytoin

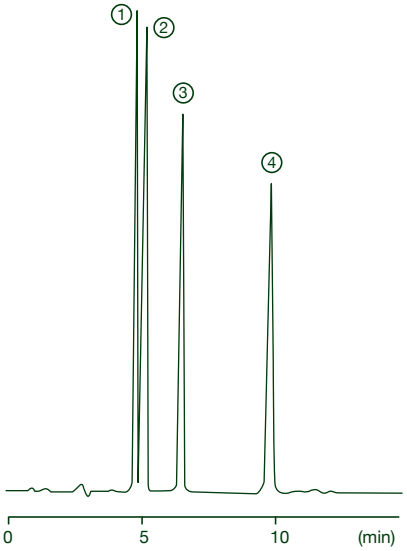


CN UG120

A phase having the least retentive nature of all reversed phases and a different selectivity brought by cyano groups.

Steroids

Column	: CAPCELL PAK CN UG120 S5
	4.6mm i.d. x 150mm
Mobile Phase	: CH_3CN / H_2O = 35 / 65
Flow Rate	: 1.0mL/min
Temperature	: 35˚C
Detection	: UV 242nm
Sample	: 1. Cortisol
	2. Cortisone
	3. Corticosterone
	4. Testosterone

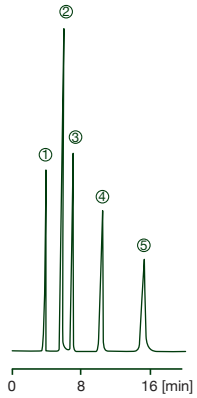


NH_2 UG80

To be used as a normal phase under a water/organic mobile phase, or a weak anion exchanger under an acidic buffer.

Nucleotides

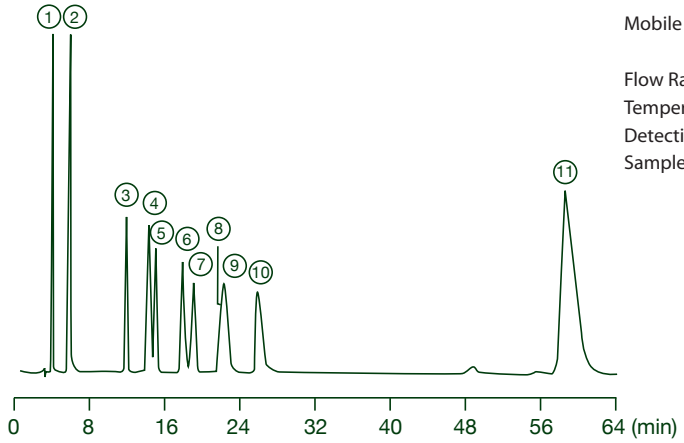
Column : CAPCELL PAK NH_2 UG80 S5 4.6mm i.d. x 250mm
Mobile Phase : 0.05mol/L $(NH_4)_2HPO_4$ (pH3.0)
Flow Rate : 1.0mL/min
Temperature : 40˚C
Detection : UV 254nm
Sample : 1. 5'-CMP
2. 5'-AMP
3. 5'-UMP
4. 5'-IMP
5. 5'-GMP



SCX UG80

A strong cation exchanger used for basic compounds.

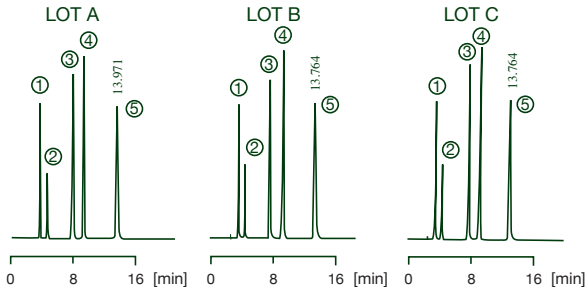
Determination of biogenic amines



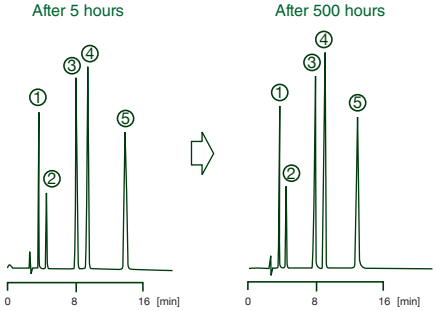
Column : CAPCELL PAK SCX UG80 4.6mm i.d. x 150mm
Mobile Phase : 0.2mol/L CH_3COONa + 0.02mol/L CH_3COOH (pH5.6)
Flow Rate : 1.0mL/min
Temperature : 40˚C
Detection : UV 254nm
Sample : 1. Dopa
2. Creatinine
3. Norepinephrine
4. Epinephrine
5. Octopamine
6. Normetanephrine
7. Dopamine
8. Isoproterenol
9. Metanephrine
10. Tyramine
11. Serotonin

Excellent lot-to-lot reproducibility

Column : CAPCELL PAK SCX UG80 4.6mm i.d. x 150mm
Mobile Phase : 0.2mol/L $NH_4H_2PO_4$ (pH3.5)
Flow Rate : 1.0mL/min
Temperature : 40˚C
Detection : UV 254nm
Sample : 1. Uracil
2. Thymine
3. Guanine
4. Cytosine
5. Adenine



Highly durable



Column : CAPCELL PAK SCX UG80 4.6mm i.d. x 150mm
Mobile Phase : 0.2mol/L $NH_4H_2PO_4$ (pH3.5)
Flow Rate : 1.0mL/min
Temperature : 40˚C
Detection : UV 254nm
Sample : 1. Uracil
2. Thymine
3. Guanine
4. Cytosine
5. Adenine