

HPLC (High Performance Liquid Chromatography)

고성능 액체크로마토그래피

Model

Agilent Technologies 1200series

Specifications

- Detection type : 1024-Element photodiode array
- Wavelength accuracy : 1 nm, self-calibration with deuterium lines, verification with holmium oxide filter
- Diode width: < 1 nm

Applications

- Analysis of organic composition
- Identification of molecular weight DNA, RNA, protein
- Environmental samples (water, waste, soil)
- Residue pesticide
- Polymers structural analyses macromolecules

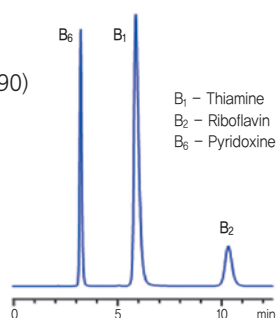


Location L2325 Tel.02-958-5963

Application Examples

Separation of vitamin B-1, 2, 6

- Column : Primesep 150 × 4.6 mm
- Flow rate : 1 ml/min
- Detection : UV 280 nm
- Mobile phase : MeCN/H₂O (10/90)
- With H₃BO₄ buffer
- PH 3.0



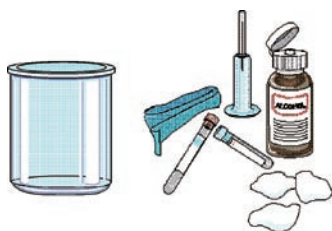
Pharmaceuticals

- Tetracyclines
- Corticosteroids
- Antidepressants
- Barbiturates



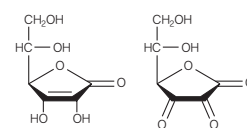
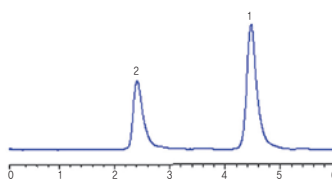
Clinical

- Amino acids
- Vitamins
- Homocysteine



Separation of ascorbic acid and dehydro-ascorbic acid

- Column : Primesep 50 × 4.6 mm
- Flow rate : 1 ml/min
- Detection : UV
- Mobile phase : MeCN/H₂O (10/90)
- With HCOOH buffer 0.1%



1. Ascorbic Acid
2. Dehydroascorbic Acid