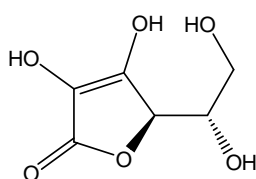


水溶性ビタミン類

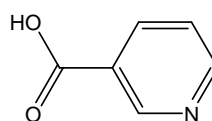
Hydrophilic vitamins

水溶性ビタミン7種について、イオンペア法を用いCAPCELL CORE C₁₈ S2.7 (2.1 mm i.d. x 150 mm) で分析した例を示します。良好な分離が短時間で得られました。流速は通常の流速 200 μ L/min の2倍としました(圧力: 装置とカラムの分を含め 34.2 MPa)。

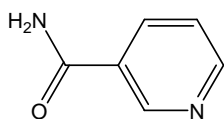
Seven kinds of hydrophilic vitamins were rapidly and efficiently separated with CAPCELL CORE C₁₈ S2.7 (2.1 mm i.d. x 150 mm), under a flow rate twice the conventional rate (pressure: 34.2 MPa, including the column and the instruments).



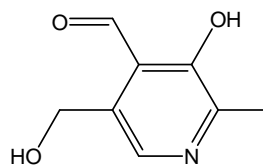
1. アスコルビン酸 (50 μ g/mL)
Ascorbic acid (M.W. 176.1)



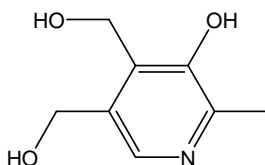
2. ニコチン酸 (50 μ g/mL)
Nicotinic acid (M.W. 123.1)



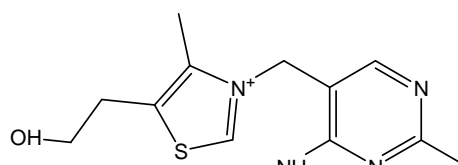
3. ニコチンアミド (50 μ g/mL)
Nicotinamide (M.W. 122.1)



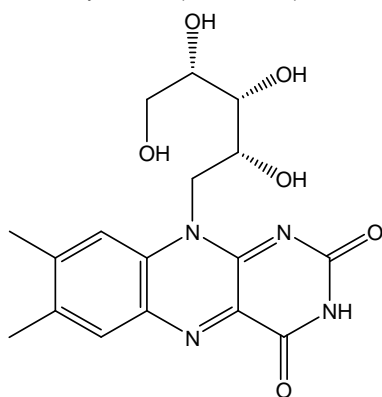
4. ピリドキサール (50 μ g/mL)
Pyridoxal (M.W. 167.2)



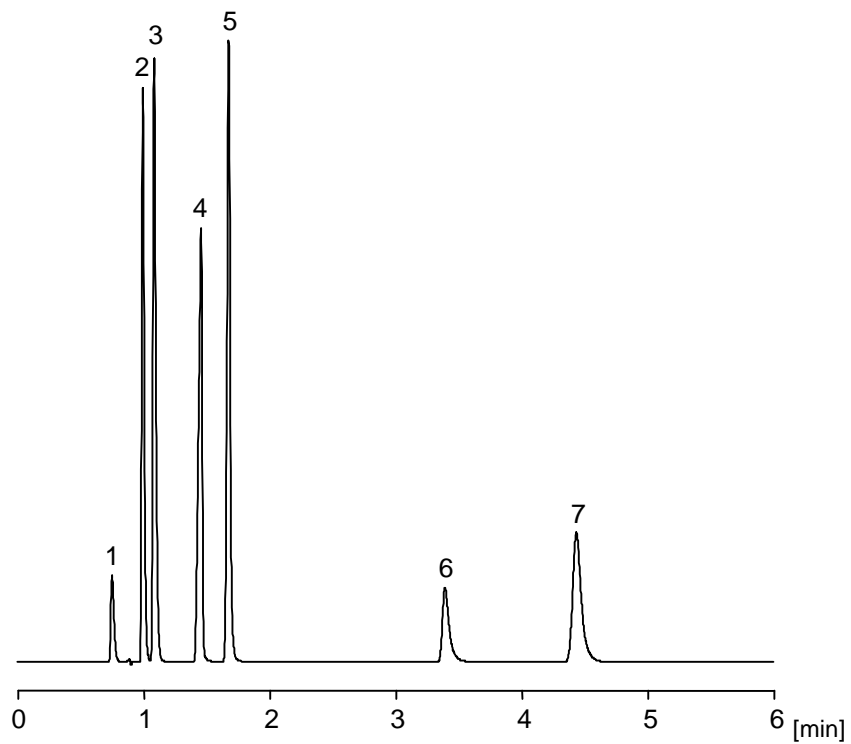
5. ピリドキシン (50 μ g/mL)
Pyridoxine (M.W. 169.2)



6. チアミン (50 μ g/mL)
Thiamine (M.W. 265.4)



7. リボフラビン (50 μ g/mL)
Riboflavin (M.W. 376.4)



【HPLC Conditions】

Column : CAPCELL CORE C₁₈ S2.7 ; 2.1 mm i.d. x 150 mm
Mobile phase : 5 mmol/L Sodium hexanesulfonate, 0.2 vol% H₃PO₄ / CH₃CN
= 90 / 10
Flow rate : 400 μL / min
Temperature : 40 °C
Detection : UV 210 nm
Inj. vol. : 3 μL
Sample dissolved in : 5 mmol/L Sodium hexanesulfonate, 0.2 vol% H₃PO₄
1 μg/mL = 1 ppm