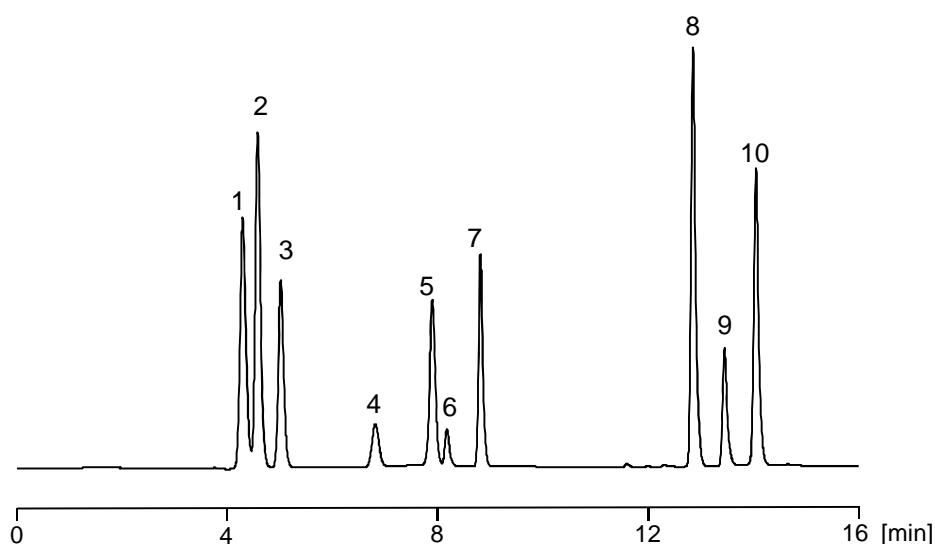


水溶性ビタミン

Hydrophilic vitamins

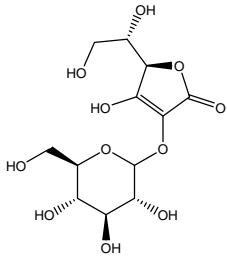
水溶性ビタミンを一斉に分析しました。CAPCELL PAK ADME S5 (2.1 mm i.d. x 250 mm) とLC-MSでも使用できる移動相を用い、十分な保持と分離を達成しています。

Shown here is the simultaneous analysis of water-soluble vitamins. Sufficient retention are achieved with a column CAPCELL PAK ADME S5 (2.1 mm id x 250 mm) by using a mobile phase even applicable for LC-MS analysis.

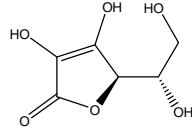


【HPLC Conditions】

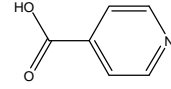
Column	: CAPCELL PAK ADME S5 ; 2.1 mm i.d. x 250 mm
Mobile phase	: A) 10 mmol/L HCOONH ₄ (pH 3, HCOOH), B) CH ₃ CN B 1 % (0 min) -> 40 % (15 min) -> 1 % (15.1 min) Gradient
Flow rate	: 200 μL/min
Temperature	: 40 °C
Detection	: PDA 254 nm
Inj. vol.	: 1 μL
Sample dissolved in	: Each standard was dissolved in 5 vol% CH ₃ OH at 1 mg/mL, and diluted with mobile phase A. ※ 1 μg/mL = 1 ppm



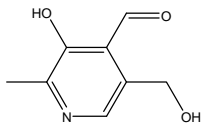
1. アスコルビン酸-2-グルコシド (100 $\mu\text{g}/\text{mL}$)
Ascorbic acid-2-glucoside (M.W. 338.3)



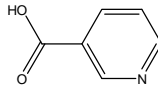
2. L-アスコルビン酸 (100 $\mu\text{g}/\text{mL}$)
L-Ascorbic acid (M.W. 176.1)



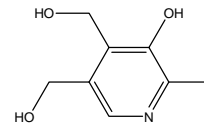
3. イソニコチン酸 (50 $\mu\text{g}/\text{mL}$)
Isonicotinic acid (M.W. 123.1)



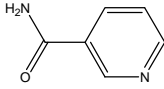
4. ピリドキサル (100 $\mu\text{g}/\text{mL}$)
Pyridoxal (M.W. 167.1)



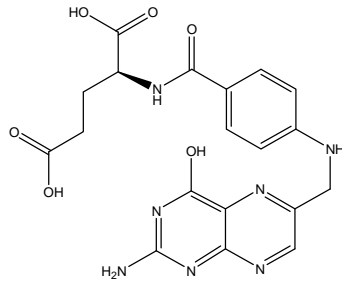
5. ニコチン酸 (50 $\mu\text{g}/\text{mL}$)
Nicotinic acid (M.W. 123.1)



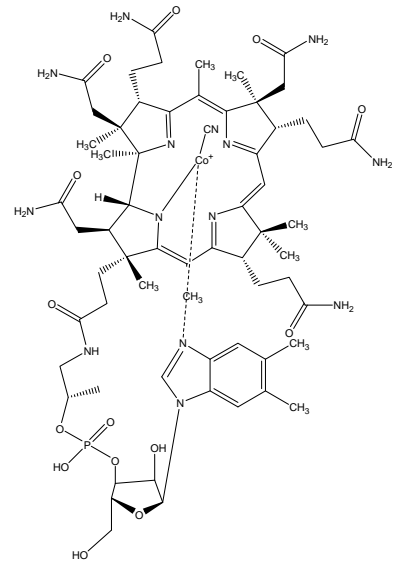
6. ピリドキシン (100 $\mu\text{g}/\text{mL}$)
Pyridoxine (M.W. 169.1)



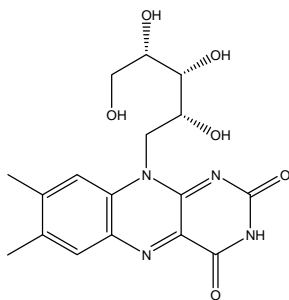
7. ニコチンアミド (50 $\mu\text{g}/\text{mL}$)
Nicotinamide (M.W. 122.1)



8. 葉酸 (100 $\mu\text{g}/\text{mL}$)
Folic acid (M.W. 441.3)



9. シアノコバラミン (100 $\mu\text{g}/\text{mL}$)
Cyanocobalamin (M.W. 1355.3)



10. リボフラビン (50 $\mu\text{g}/\text{mL}$)
Riboflavin (M.W. 376.3)