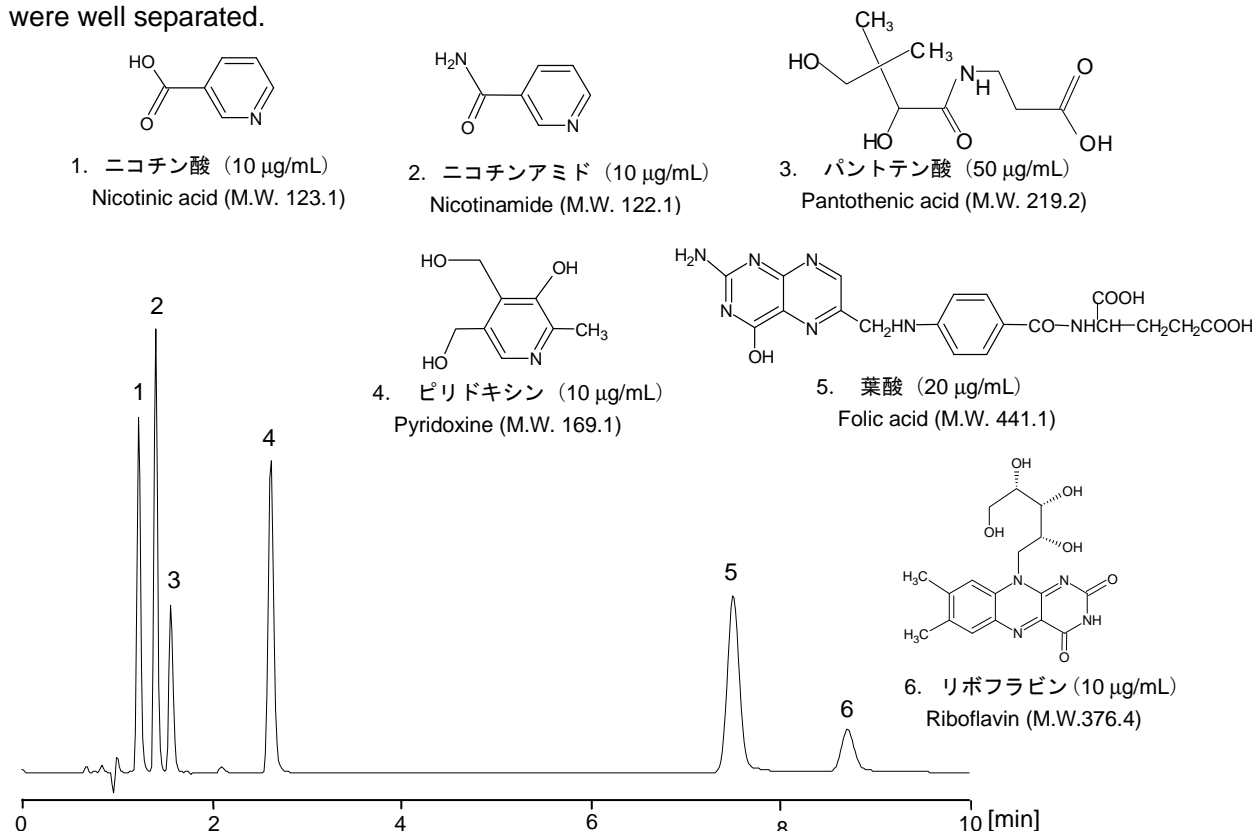


水溶性ビタミン類

Hydrophilic vitamins

CAPCELL CORE C₁₈ S2.7 (4.6 mm i.d. x 100 mm)を用い、ニコチン酸、ニコチンアミド及び水溶性ビタミン B 類を、イオンペア法により分析した例を示します。保持の弱いニコチン酸、ニコチンアミド及びパントテン酸が良好に分離しています。

Nicotinic acid, nicotinamide, and compounds of vitamin B group were separated by the ion-pair method with CAPCELL CORE C₁₈ S2.7 (4.6 mm i.d. x 100 mm). The three compounds of relatively small retention, nicotinic acid, nicotinamide, and pantothenic acid, were well separated.



【HPLC Conditions】

Column	: CAPCELL CORE C ₁₈ S2.7 ; 4.6 mm i.d. x 100 mm
Mobile phase	: Sodium octane sulfonate and phosphoric acid was added to a solution (H ₂ O / CH ₃ CN = 92 / 8) at 5 mmol/L and 0.1 vol%, respectively.
Flow rate	: 1.0 mL / min
Temperature	: 40 °C
Detection	: UV 210 nm
Inj. vol.	: 5 µL
Sample dissolved in	: Nicotinic acid, Nicotinamide, Pantothenic acid sodium, Pyridoxine hydrochloride, Folic acid, and Riboflavin were separately dissolved in water at 1 mg/mL. Solution of Pantothenic acid sodium was diluted with the mobile phase to 50 µg/mL, those of Folic acid was diluted with the mobile phase to 20 µg/mL, and those of Nicotinic acid, Nicotinamide, Pyridoxine hydrochloride, and Riboflavin were deiluted with the mobile phase to 10 µg/mL.
	1 µg/mL = 1 ppm