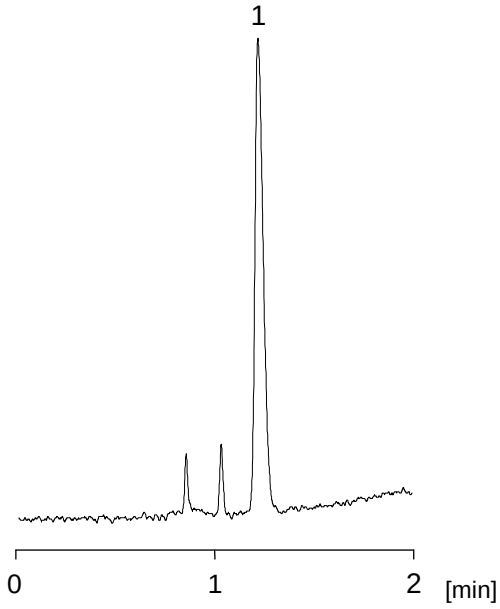
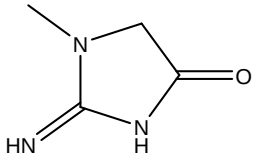
クレアチニン　Creatinine

クレアチニンはクレアチンの代謝物で, 尿中のクレアチニン濃度が肝機能検査に用いられます. また，クレアチニンは極性が高く逆相モードでの保持は困難です．CAPCELL CORE PC S2.7 を用いた HILIC モードにより測定した例を示します.

Creatinine is a break-down product of creatine phosphate in muscle, and its concentration in the blood is used for measuring kidney function. The compound is highly hydrophilic and difficult to retain in a reversed-phase column. Shown below is the separation of creatinine performed with CAPCELL CORE PC S2.7, a column for hydrophilic interaction chromatography (HILIC).





1. クレアチニン（50 μg/mL）
   Creatinine（M.W. 113.1）

【HPLC Conditions】

Column	: CAPCELL CORE PC S2.7 ; 2.1 mm i.d. x 150 mm
Mobile phase	: 10 mmol/L CH_3COONH_4 / CH_3CN = 10 / 90
Flow rate	: 400 μL / min
Temperature	: 40 ˚C
Detection	: UV 210 nm
Inj. vol.	: 0.5 μL
Sample dissolved in	: Standard compound was dissolved in H_2O at 1000 μg /mL. 50 μL portion of the solution was diluted to 1 mL with H_2O / CH_3CN = 50 / 50. 1 μg/mL = 1 ppm