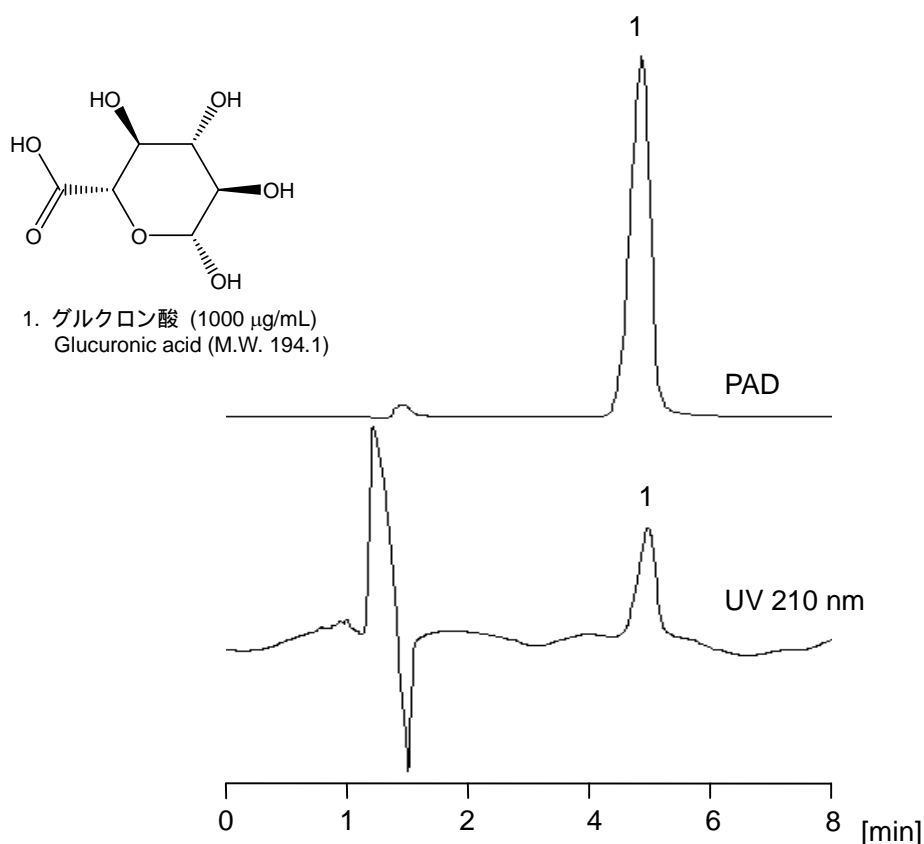


グルクロン酸

Glucuronic acid

uron酸の一種，グルクロン酸は非常に極性が高く，逆相カラムでの保持は困難です．PC HILIC S5 (2.0 mm i.d. x 150 mm) を用い PAD 検出器で測定した例を示します．十分な保持が得られ，かつ UV 検出器に比べ高感度にピークが検出されました．

Glucuronic acid, one of the uronic acids, is very hydrophilic and difficult to retain in a reversed-phase column. The combination of PC HILIC S5 (2.0 mm i.d. x 150 mm) and a pulsed amperometric detector (PAD) could adequately retain and sensitively detect the compound. PAD showed a higher sensitivity than that of UV detector.



【HPLC Conditions】

Column	: PC HILIC S5 ; 2.0 mm i.d. x 150 mm
Mobile phase	: 10 mmol/L KH_2PO_4 , 10 mmol/L Na_2HPO_4 / CH_3CN = 25 / 75 Post-column addition for PAD, 100 mmol/L NaOH , 200 $\mu\text{L}/\text{min}$
Flow rate	: 200 $\mu\text{L}/\text{min}$
Temperature	: 35 $^\circ\text{C}$
Detection	: Pulsed Amperometric Detector (PAD), UV 210 nm
Inj. vol.	: 2 μL
Sample dissolved in	: Mobile phase 1 $\mu\text{g}/\text{mL}$ = 1 ppm