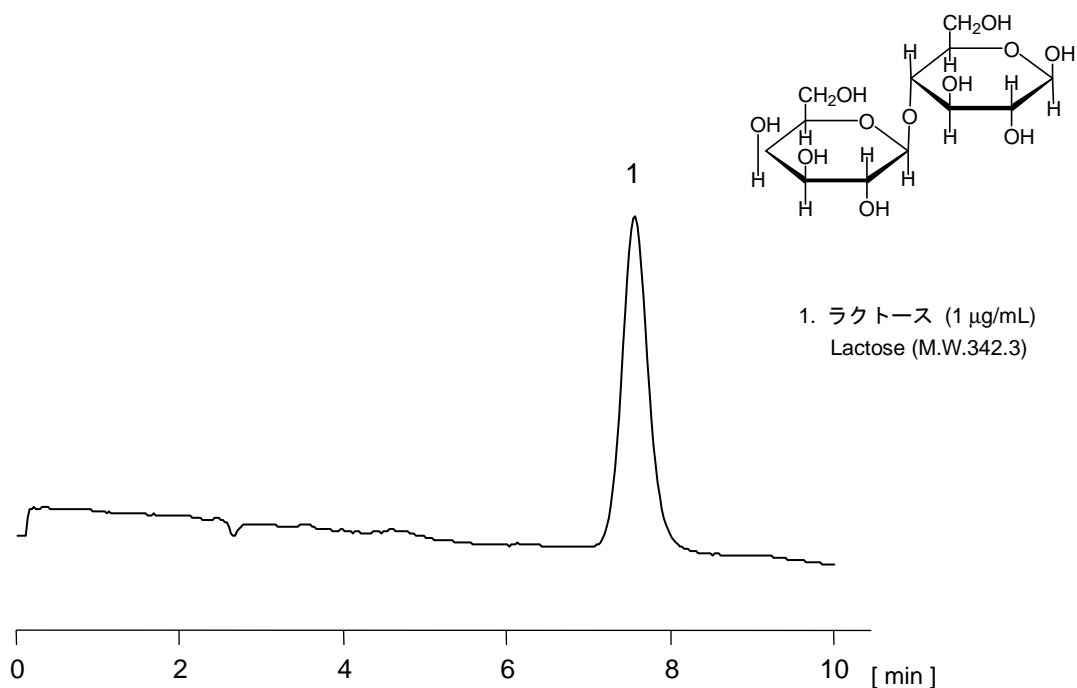


乳糖（ラクトース）は、D-ガラクトースとD-グルコースの β -1,4 ガラクシド結合した還元性を示す二糖です。糖分析専用ポリマーカラム SUCREBEAD II とパルス式電気化学検出器（PAD）を組み合わせた手法の分析例を示します。示差屈折計（RI）より高感度分析が可能です。

Lactose is a reducing disaccharide consisting of D-galactose and D-glucose linked together through β -1,4-galactosidic bond. The following chromatogram was obtained with a combination of SUCREBEAD II, or a column specialized for sugar analysis, and a pulsed amperometric detector (PAD), which showed much higher sensitivity than that of a differential refractometer (syn.: refractive index detector, RI detector).

**【HPLC Conditions】**

Column : SUCREBEAD II ; 2.0 mm i.d. x 250 mm
Mobile phase : 0.3 mol/L NaOH
Flow rate : 200 $\mu\text{L}/\text{min}$
Temperature : 30 $^{\circ}\text{C}$
Detection : Pulsed amperometric detector (PAD)
Inj. vol. : 1 μL
Sample dissolved in : H_2O
※ 1 $\mu\text{g/mL}$ = 1 ppm