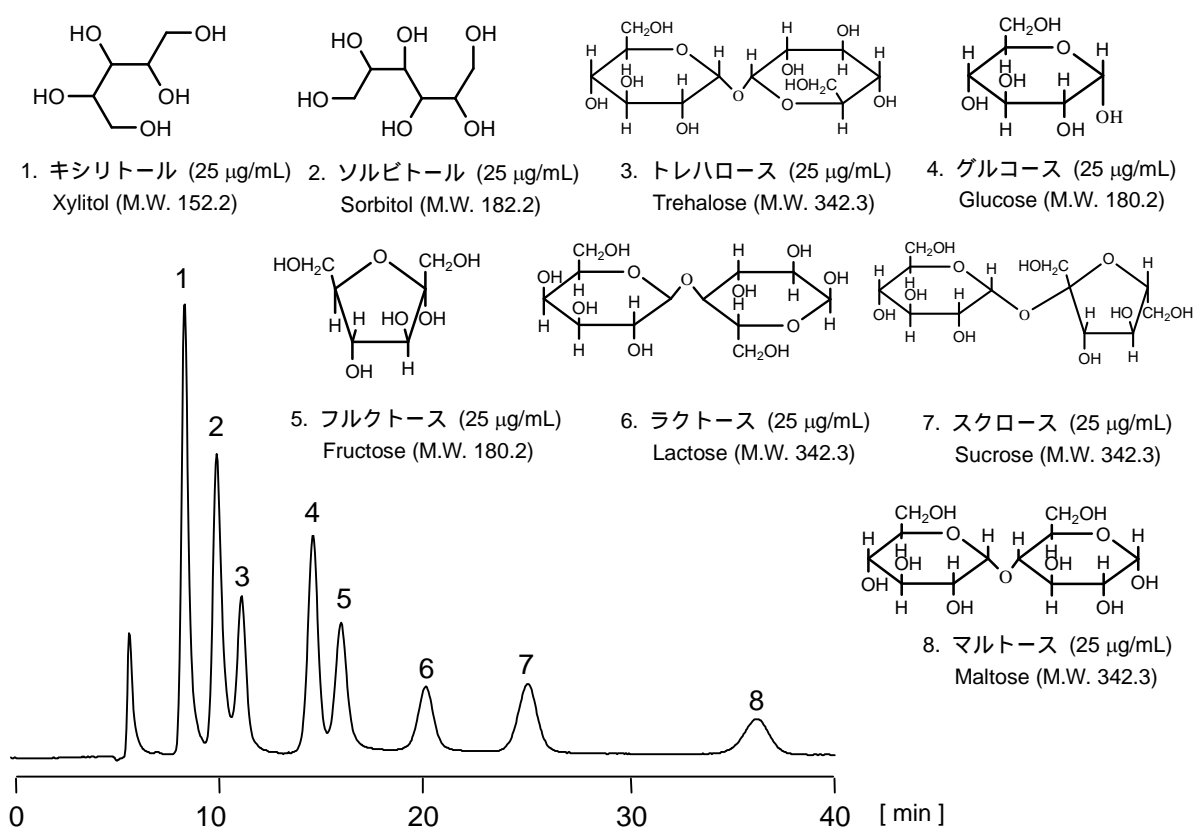


糖と糖アルコール

Sugars and sugar alcohols

糖分析専用ポリマーカラム，SUCREBEAD とパルス式電気化学検出器（PAD）を組み合わせた手法の応用例を示します．この手法は脂肪族水酸基を持つ物質を分析対象とします．検出に利用できる発色団を持たない物質に対し，屈折率検出器を用いた手法より非常に高感度な分析を可能とします．

A combination of SUCREBEAD, or a column specialized for sugar analysis, and a pulsed amperometric detector (PAD), is designed for analyzing compounds possessing an aliphatic hydroxyl group. The method shows much higher sensitivity towards compounds having no chromophore for optical detection techniques, than those using a differential refractometer (syn.: refractive index detector, RI detector).



【HPLC Conditions】

Column	: SUCREBEAD II ; 2.0 mm i.d. x 250 mm
Mobile phase	: 300 mmol/L NaOH
Flow rate	: 100 $\mu\text{L/min}$
Temperature	: 25 $^{\circ}\text{C}$
Detection	: Pulsed amperometric detector (PAD)
Inj. vol.	: 1 μL
Sample dissolved in	: H_2O
	1 $\mu\text{g/mL}$ = 1 ppm