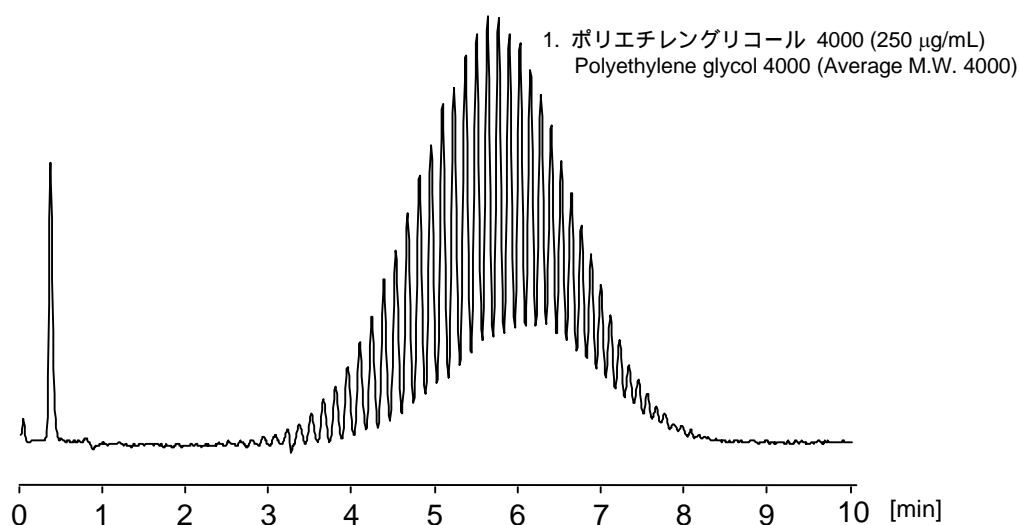
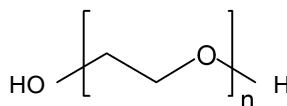


ポリエチレングリコール 4000

Polyethylene glycol 4000

比較的大きい分子の分析に適した CAPCELL CORE MP S2.7 (2.1 mm i.d. x 50 mm) を用いポリエチレングリコール(PEG, 平均分子量 4000)のオリゴマー分布を観測しました . 検出には NQAD を用い , 質量分析計では得られない重量分布を忠実に示すクロマトグラムを得ました .

Oligomer distribution of polyethylene glycol (PEG, Average M.W. 4000) was observed with CAPCELL CORE MP S2.7 (2.1 mm i.d. x 50 mm), a column designed for separating relatively large molecules. A chromatogram showing a truly weight-based distribution, which could not be observed with a mass spectrometer, was obtained with nano quantity analyte detector (NQAD).



【HPLC Conditions】

Column	: CAPCELL CORE MP S2.7 ; 2.1 mm i.d. x 50 mm
Mobile phase	: A) H ₂ O, B) CH ₃ CN B 20 % (0 min) 40 % (10 min) 20 % (10.1 min) Gradient
Flow rate	: 400 $\mu\text{L/min}$
Temperature	: 50 °C
Detector	: NQAD (Evaporation 35 , Nubulizer 30 , Filter 2.5 sec)
Inj. vol.	: 2 μL
Sample dissolved in	: 20 % CH ₃ CN 1 $\mu\text{g/mL}$ = 1 ppm