

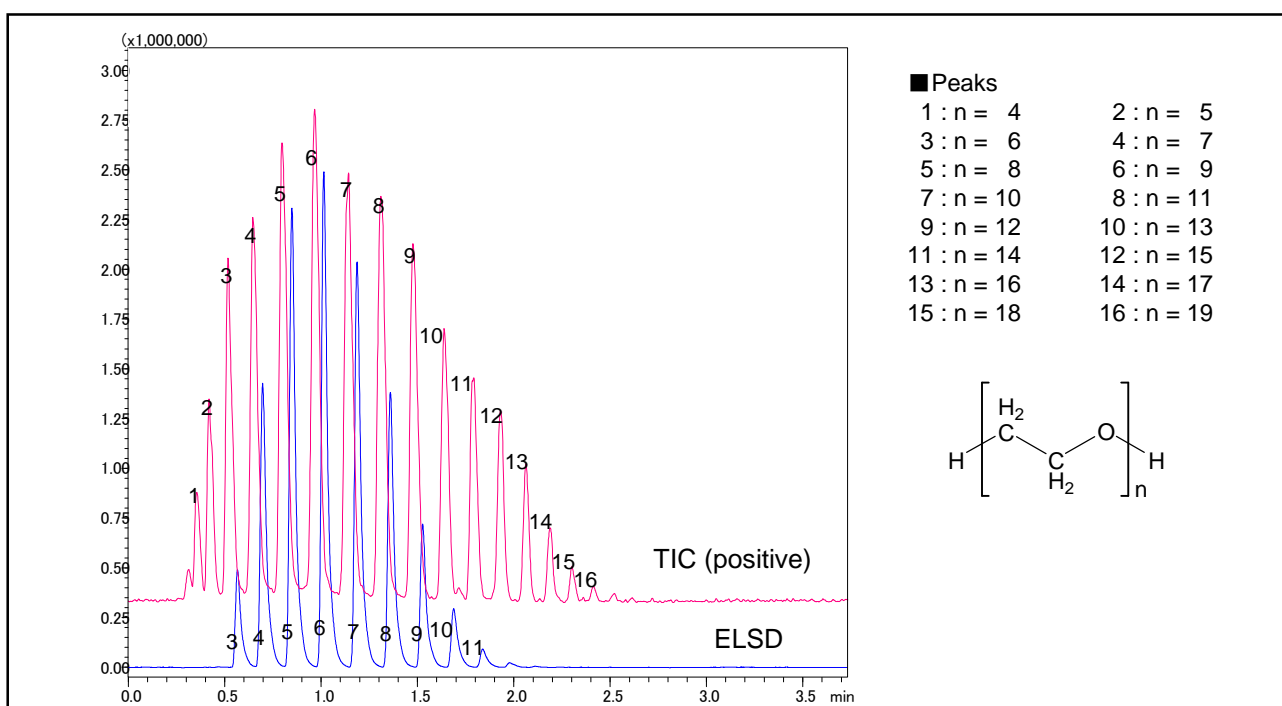
Application Data Sheet

High Performance Liquid Chromatography

No. 63

High Speed Analysis of PEG400 Using LCMS-2020

This chromatogram shows separation results of PEG400 by an ultra fast liquid chromatograph, Prominence UFLCXR. LCMS-2020 and ELSD-LTII were used for the detection. The column eluate was split before the LCMS-2020 and ELSD-LTII.



Analysis of PEG400

[Sample Preparation]

A standard PEG-400 solution was diluted with ultrapure water by a factor of 600.

Analytical Conditions

Instrument	: Prominence UFLCXR system+LCMS-2020
Column	: Shim-pack XR-ODS II (150 mm × 3.0 mm <i>i.d.</i>)
Mobile Phase	: A) 10 mmol/L Ammonium acetate - Water B) 10 mmol/L Ammonium acetate - Acetonitrile B conc. ; 15% to 30% (0 to 2.5 min)
Flow Rate	: 1.5 mL/min (PDA) → 1.0 mL/min (ELSD) + 0.5 mL/min (MS)
Column Temperature	: 40 °C
Detection	: MS; ESI-positive, ELSD
Sample Volume	: 1 μL