

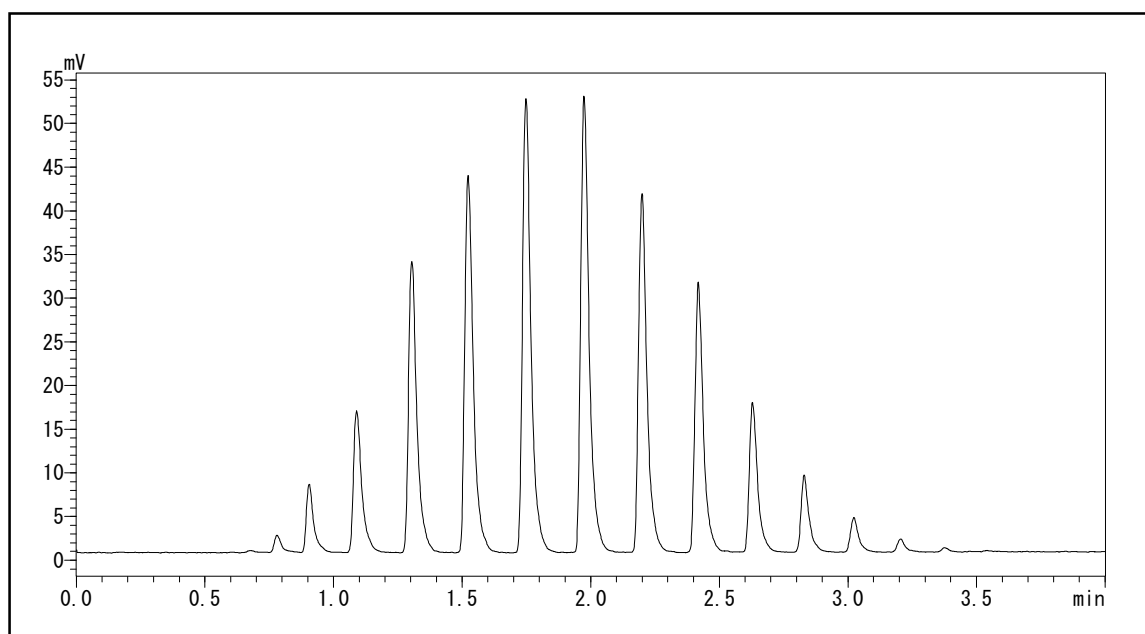
# Application Data Sheet

High Performance Liquid Chromatography

No. 42

## High-Speed Analysis of PEG 600

Polyethylene glycol (PEG) is widely used as a moisturizer in cosmetic products. This describes an example of using an evaporative light scattering detector (ELSD) to analyze a sample of polyethylene glycol (PEG 600) with a mean molecular weight of 600.



Analysis of PEG 600

### [Sample Preparation]

Polyethylene glycol 600 was diluted 200 times using ultrapure water.

### Analytical Conditions

Instrument	: Prominence UFLC system
Column	: Shim-pack XR-ODS (75 mm x 3.0 mm <i>i.d.</i> )
Mobile Phase	: A) Water B) Acetonitrile B conc.: 17.5% to 30% (0 to 4.0 min.), 17.5% (4.0 to 6.0 min.)
Flow Rate	: 1.0 mL/min.
Column Temperature	: 40°C
Detection	: Evaporative Light Scattering Detector (ELSD)
Sample Volume	: 1 µL