

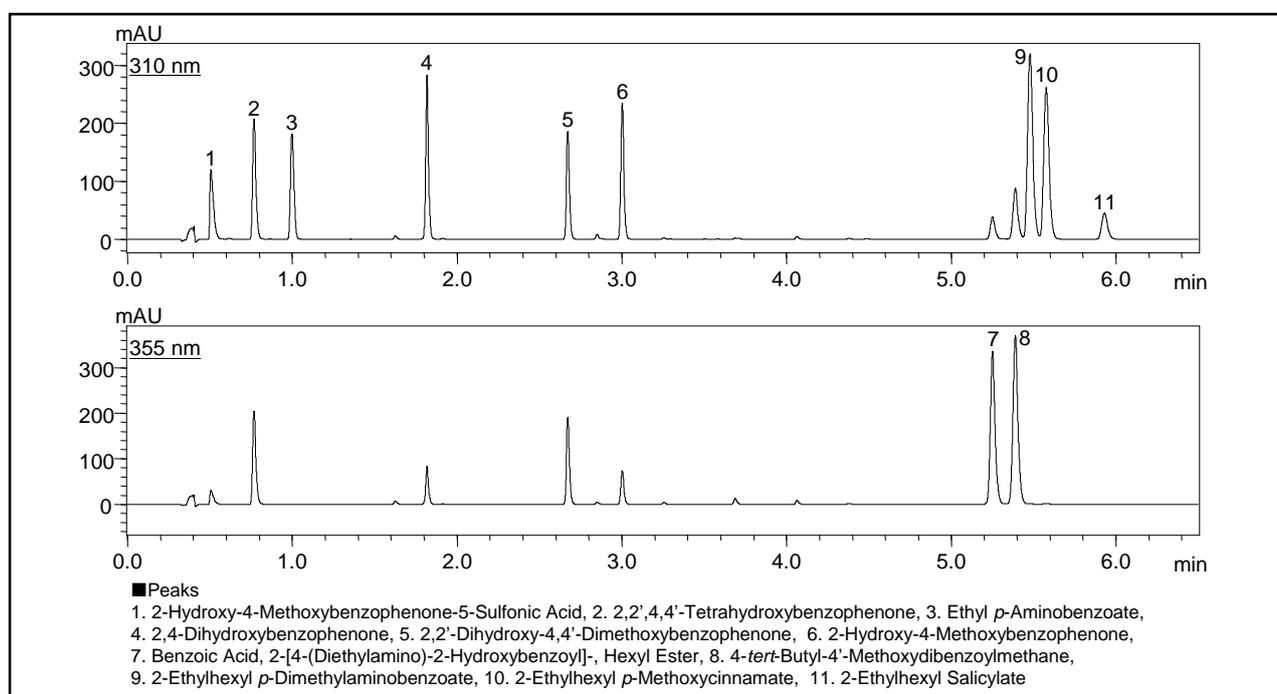
# Application Data Sheet

High Performance Liquid Chromatography

No. 66

## High-Speed Analysis of Ultraviolet Absorbers (1)

Many different types of UV-blocking cosmetic products are commercially available to protect the skin from UV rays. This data sheet shows results of a high-speed analysis of 11 ultraviolet absorber components.



### Analysis of Ultraviolet Absorbers

#### [Sample Preparation]

Eleven ultraviolet absorber components were dissolved with methanol to prepare a concentration of 100 mg/L.

#### Analytical Conditions

Instrument	: Prominence UFLCXR system
Column	: HALO <sup>®</sup> C18 (150 mm × 2.1 mm <i>i.d.</i> )
Mobile Phase	: A) 0.085 % Phosphoric Acid in Water B) Acetonitrile B Conc. 30 % (0 min) → 70 % (3.5 min) → 75 % (7 min)
Flow Rate	: 0.8 mL/min
Column Temperature	: 60 °C
Detection	: Absorbance at 310 nm and 355 nm with Semi-micro flow cell
Sample Volume	: 2 µL