

Application Data Sheet

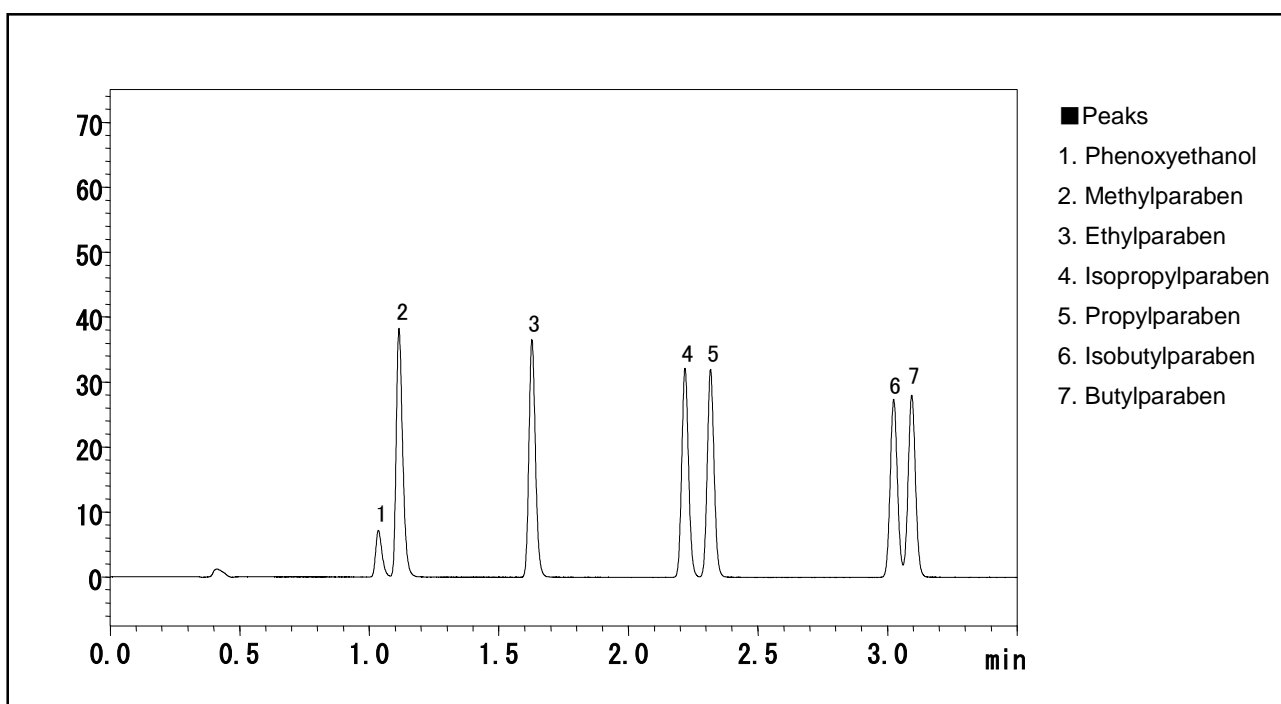
High Performance Liquid Chromatography

No. 58

High Speed Analysis of Parabens and Phenoxyethanol

Parabens and other antiseptics are used to maintain the safety and quality of cosmetics.

This chromatogram shows results of a simultaneous analysis of 6 paraben components and phenoxyethanol.



Analysis of Parabens and Phenoxyethanol

[Sample Preparation]

The 6 paraben components and phenoxyethanol were dissolved in methanol, and adjusted to 10 mg/L and 50 mg/L respectively.

Analytical Conditions

Instrument	: Prominence UFLC system
Column	: Shim-pack XR-ODS (75 mm × 3.0 mm <i>i.d.</i>)
Mobile Phase	: A) 10 mmol/L (sodium) phosphate buffer (pH 2.6) B) Acetonitrile B conc.; 30% (0 min) → 55% (3.5 min)
Flow Rate	: 1.0 mL/min
Column Temperature	: 40°C
Detection	: Absorbance at 255 nm with semi-micro flow cell
Sample Volume	: 2 μL