

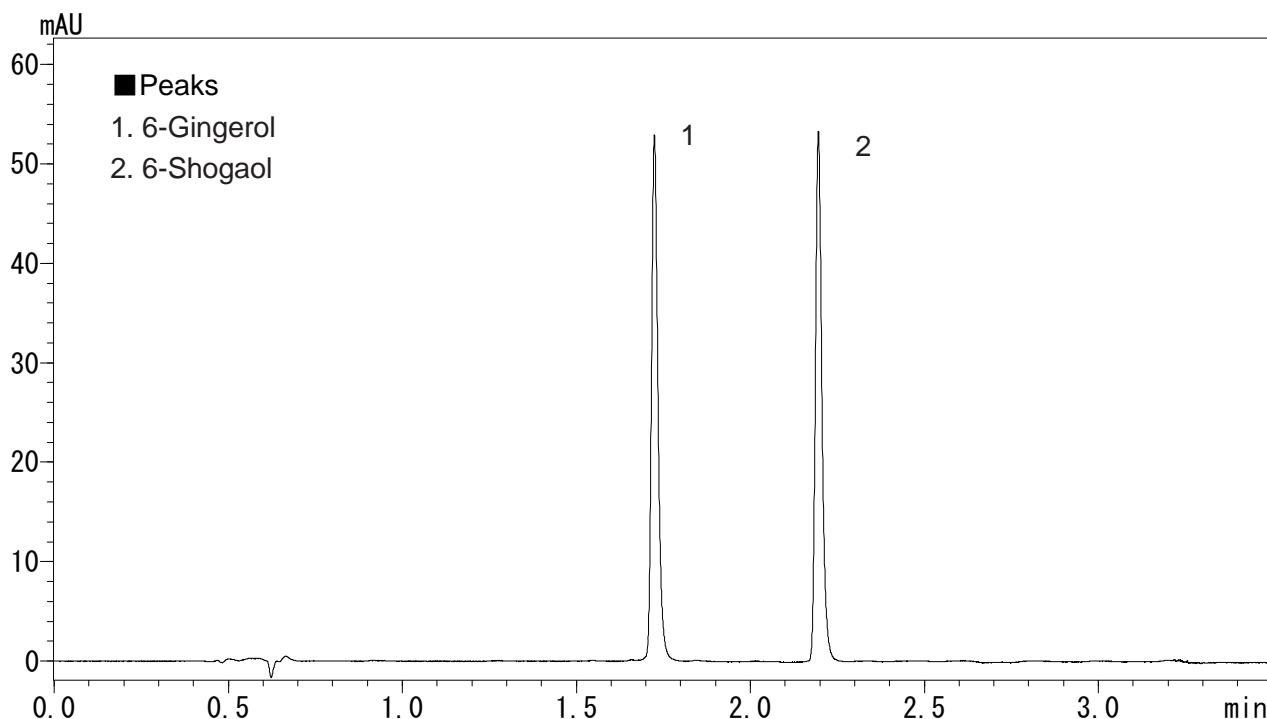
Application Data Sheet

High Performance Liquid Chromatography

No. 74

High-Speed Analysis of Gingerol and Shogaol

Ginger root is not only used as a food ingredient or spice, it is also used as a natural medicine as well. Here we present an example of high-speed analysis of 6-gingerol and 6-shogaol contained in ginger.



Analysis of 6-Gingerol and 6-Shogaol

[Sample Preparation]

A 100 mg/L concentration solution of each standard sample was prepared using ethanol.

Analytical Conditions

Instrument	: Prominence UFLC system
Column	: Shim-pack XR-ODS (75 mmL. × 3.0 mm I.D.)
Mobile Phase	: A) Water B) Acetonitrile B conc; 30 % (0 min) → 90 % (2.10min) → 90 % (2.50 min) → 100 % (2.51 min) → 100 % (3.50 min) → 30 % (3.51 min)
Flow Rate	: 1.0 mL/min
Column Temperature	: 40 °C
Detection	: Absorbance at 280 nm with Semi-micro flow cell
Sample Volume	: 2 µL