

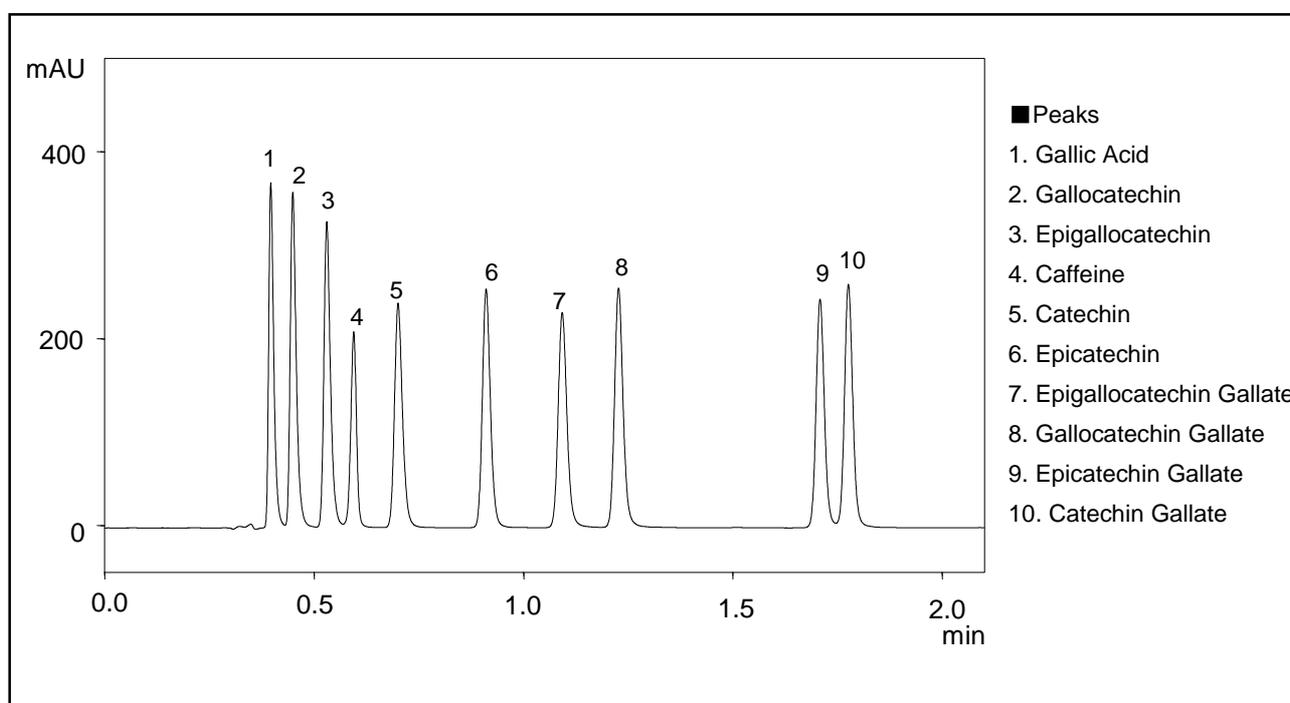
Application Data Sheet

High Performance Liquid Chromatography

No. 55

High-Speed Analysis of Catechins (2)

The chromatogram is an example of a high-speed analysis of catechins. A UV detector was used for the detection of catechins. For LCMS detection, please refer to Data Sheet No. 26.



Analysis of Catechins

[Sample Preparation]

A 100mg/L mixed solution of catechins, gallic acid and caffeine were prepared by dilution with mixed solutions of water and methanol (8:2 v/v).

Analytical Conditions

Instrument	: Prominence UFLCXR system
Column	: HALO [®] C18 (75 mm × 3.0 mm <i>i.d.</i>)
Mobile Phase	: A) 0.2% Phosphoric acid in water / Tetrahydrofuran = 99/1 B) Acetonitrile/ Tetrahydrofuran = 99/1 B.conc; 12% through 25% (0 to 2.0 min) to 50% (2.0 to 2.1 min), 12% (2.1 to 3.0 min)
Flow Rate	: 1.0 mL/min
Column Temperature	: 40 °C
Detection	: Absorbance at 230 nm with semi-micro flow cell
Sample Volume	: 2 μL