

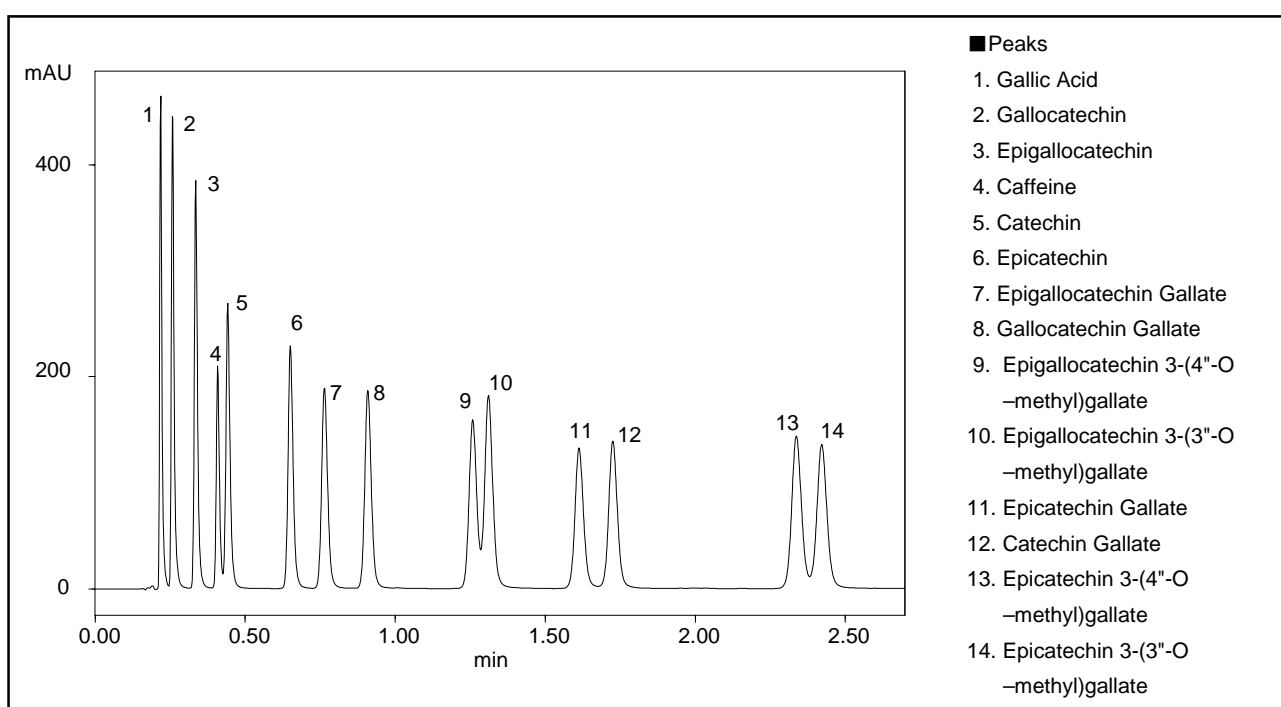
Application Data Sheet

High Performance Liquid Chromatography

No. 56

High Speed Analysis of Catechins (3)

An example of a high-speed analysis of 10 catechin components was introduced in Data Sheet No. 55. This data sheet shows results for a simultaneous analysis of 14 components.



Analysis of Catechins

[Sample Preparation]

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

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 = 995 / 5 B) Acetonitrile / Tetrahydrofuran = 990 / 10 B conc.: 10% to 15% (0 min to 2.5 min) to 50% (2.5 min to 2.6 min), 10% (2.6 min to 3.5 min)
Flow Rate	: 2.0 mL/min
Column Temperature	: 40°C
Detection	: Absorbance at 230 nm with semi-micro flow cell
Sample Volume	: 2 μL

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