

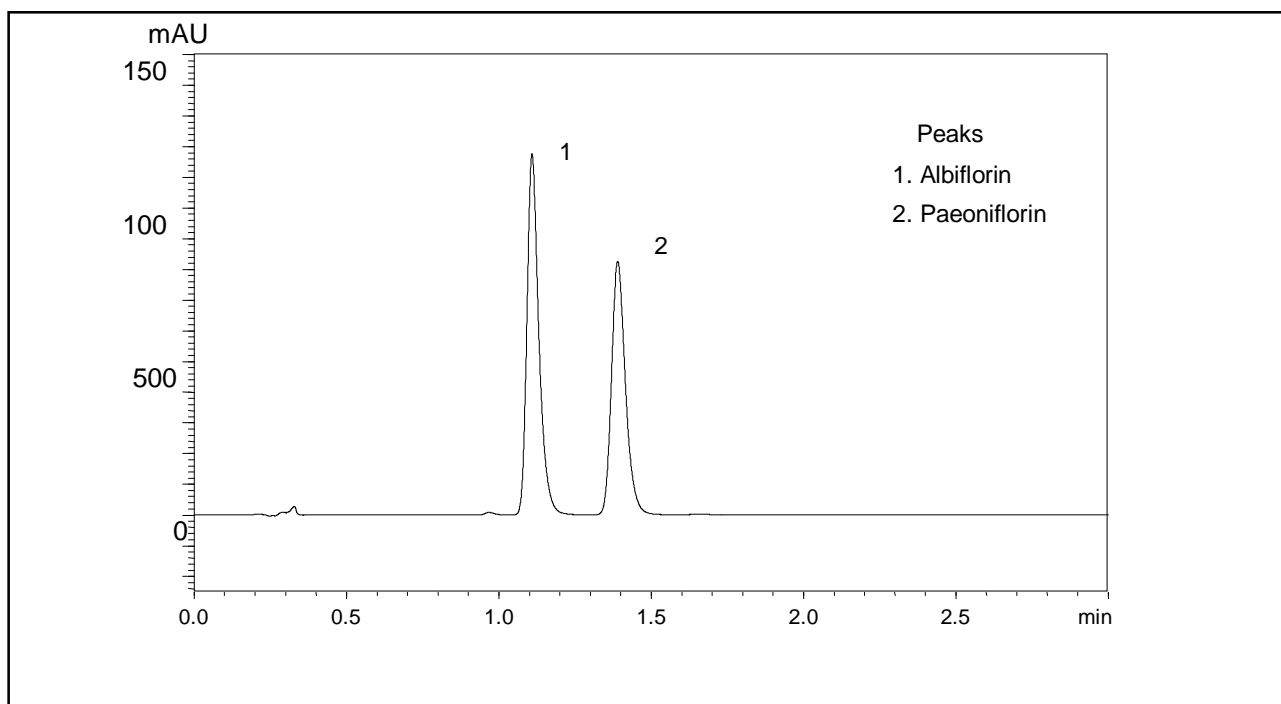
Application Data Sheet

High Performance Liquid Chromatography

No. 35

High-Speed Analysis of Paeoniflorin

We performed high-speed analysis of paeoniflorin contained in a number of crude drugs, such as paeoniae radix and others. Even though the required degree of separation for paeoniflorin and albiflorin is 2.5 or higher in the Japanese Pharmacopoeia 15th revision, this analysis was completed in 2 minutes or less, with a degree of separation of approximately 4.



Analysis of Paeoniflorin and Albiflorin

[Sample Preparation]

A 100 mg/L concentration solution of each standard sample was prepared using 50% methanol.

Analytical Conditions

Instrument	: Prominence UFLC system
Column	: Shim-pack XR-ODS (50 mm x 3.0 mm i.d.)
Mobile Phase	: Water / Acetonitrile / phosphoric acid = 850 / 150 / 1 (v/v)
Flow Rate	: 1.0 mL/min
Column Temperature	: 25 °C
Detection	: Absorbance at 232 nm with Semi-micro flow cell
Sample Volume	: 4 µL