

High-Speed Analysis of Berberine

Here we used an LCMS to conduct an analysis of berberine, an alkaloid that exists in the bark of the cork tree. Selective detection capability of the mass spectrometer is efficient in the separation of berberine and palmatine, enabling the analysis to be conducted in a short period of time.



Analysis of Berberine in Cork Tree Bark

[Sample Preparation]

After adding 1mL of methanol to 1 mg of finely powdered cork bark and centrifuge, the resulting supernatant fluid was filtered through a 0.45 um membrane filter.

Analytical Conditions		
Instrument	: Prominence UFLC system + LCMS-2010EV	
Column	: Shim-pack XR-ODS (75 mm x 2.0 mm <i>i.d.</i>)	
Mobile Phase	: A) 0.1% Formic acid / Tetrahydrofuran = 95 / 5 (v / v) B) Acetonitrile B.conc; 15% to 25% (0 to 2 min)	
Flow Rate	:0.5 mL/min	
Column Temperature	: 40 °C	
Detection	: MS; ESI-Positive, Scan	
Sample Volume	:0.5 µL	

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 SHIMADZU CORPORATION. International Marketing Division

 3, Kanda-Nishikicho 1-chome, Chiyoda-ku, Tokyo 101-8448, Japan Phone. 81(3)3219-5641
 Fax. 81(3)3219-5710

 URL http://www.shimadzu.com
 Fax. 81(3)3219-5710