



Application Data Sheet

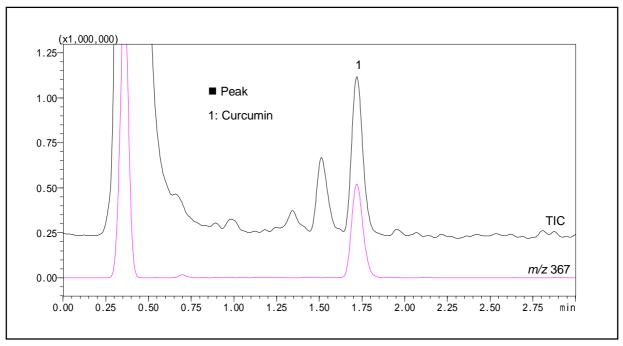


High Performance Liquid Chromatography

No. 25

High-Speed Analysis of Curcumin

Turmeric is used as a natural medicine and colorant, and contains the yellow pigment curcumin. Here we used an LCMS to conduct the analysis of a beverage containing turmeric, and curcumin was detected as a deprotonated molecule.



Analysis of Curcumin in Turmeric Beverages

[Sample Preparation]

A turmeric beverage was diluted by a factor of 10 with ethanol, and after separation in a centrifuge, the resulting supernatant was filtered through a 0.45 µm membrane filter.

Analytical Conditions

Instrument : Prominence UFLC system + LCMS-2010EV

Column : Shim-pack XR-ODS (75 mm x 2.0 mm i.d.)

Mobile Phase :A) 0.1% Formic acid

B) Acetonitrile A / B = 50 / 50 (v / v)

Flow Rate : 0.5 mL/min

Column Temperature : 40 °C

Detection : MS; ESI-Negative, Scan

Sample Volume :1 µL

