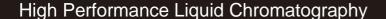




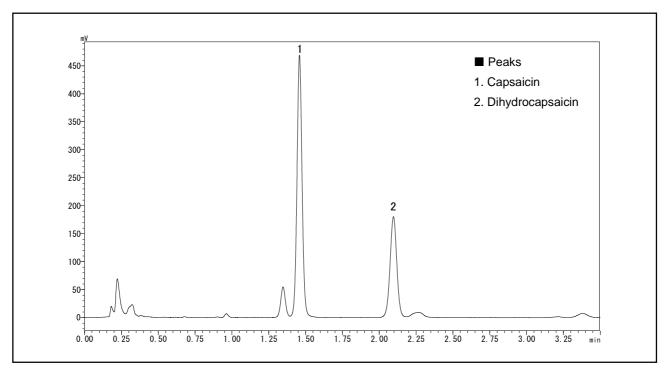
Application Data Sheet



No. 45

High-Speed Analysis of Capsaicins

The figure shows a UFLCXR analysis of capsaicins in cayenne pepper powder. By using Shimadzu fluorescence detector with a semi-micro flow cell, UFLCXR accomplished high speed analysis without loss of the separation efficiency.



Analysis of Capsaicins in Cayenne Pepper Powder

[Sample Preparation]

10 mL of ethanol was added to 0.1 g of sample and heated, then extracted ultrasonically for 1 hour. The resulting supernatant was then filtered using a 0.45 μ m membrane filter.

Analytical Conditions

Instrument : Prominence UFLCxR system

Column : Shim-pack XR-ODSII (75 mm x 3.0 mm *i.d.*)

Mobile Phase : 1% (v/v) Acetic acid aq. / Acetonitrile = 1 / 1 (v/v)

Flow Rate :1.2 mL/min.

Column Temperature :50°C

Detection : Fluorescence (Ex. 280 nm, Em. 325nm) with semi-micro flow cell

Sample Volume :2 µL

