

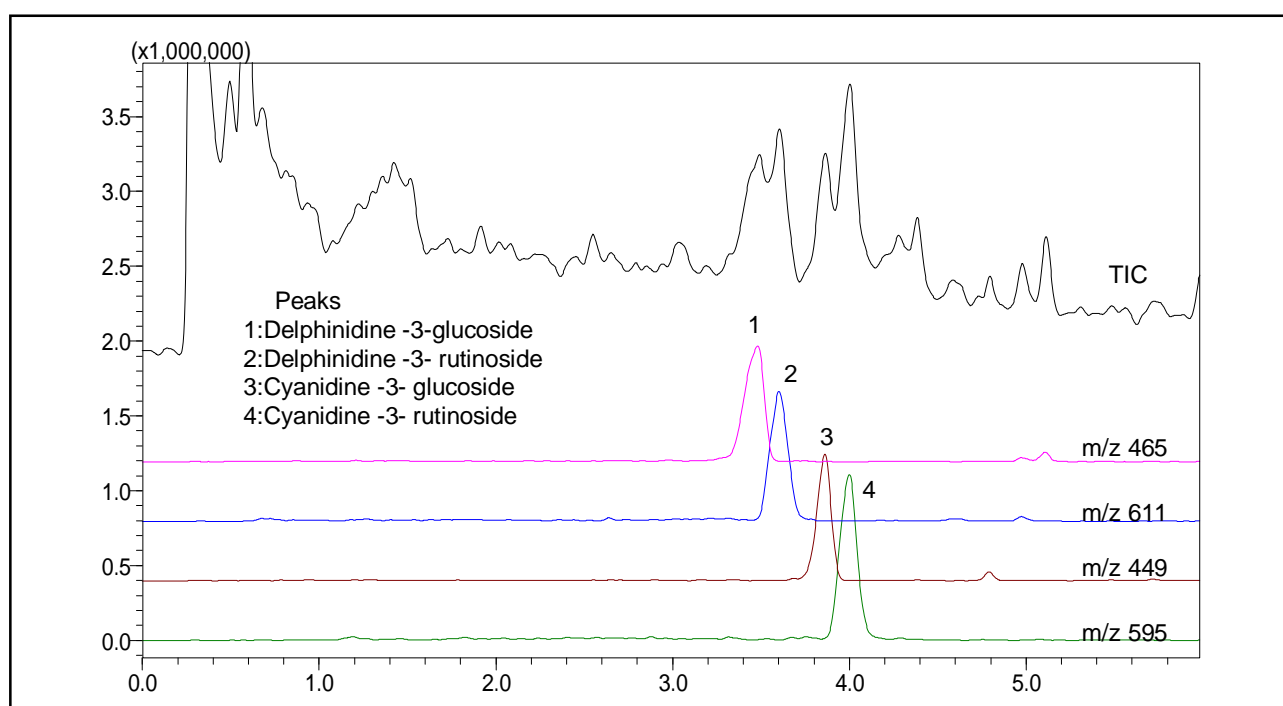
Application Data Sheet

High Performance Liquid Chromatography

No. 38

High-Speed Analysis of Anthocyanin

Anthocyanins, a general term for glycosides, contain anthocyanidin, which acts as an aglycone, and exists in abundance in the plant kingdom. In addition to being known as a coloring ingredient in flower petals and leaves, it is recently receiving increased attention due to its antioxidant effect. In this study, we detected individual components as positive ions.



Analysis of Anthocyanin

[Sample Preparation]

Commercial foodstuffs containing black currant extract were dissolved using methanol.

Analytical Conditions

Instrument	: Prominence UFLC system + LCMS-2010EV
Column	: Shim-pack XR-ODS (50 mm x 2.0 mm i.d.)
Mobile Phase	: A) Water containing 0.1% trifluoroacetic acid B) Acetonitrile containing 0.1% trifluoroacetic acid B. conc; 5% to 20% (0 to 6 min.), 95% (6 to 8 min.), 5% (8 to 10 min.)
Flow Rate	: 0.5 mL/min.
Column Temperature	: 40 °C
Detection	: MS; ESI-Positive, Scan
Sample Volume	: 2 µL