

## **High-Speed Analysis of Ellagic Acid**

Ellagic acid is one type of polyphenol and exists in abundance in nuts, raspberry, strawberry, and pomegranate. The figure shows ultra fast separation of ellagic acid in a commercially available raspberry jam.



Analysis of Ellagic Acid in Raspberry Jam

[Sample Preparation]

4mL of a mixed solution of methanol and 10mmol/L oxalic acid aqueous solution (3:1, v/v) was added to a 1g sample of raspberry jam, then extracted by applying ultrasonic waves for 30 minutes. After performing centrifugal separation, the resulting supernatant was filtered through a 0.2 μ m membrane filter.

Analytical Conditions

Instrument	: Prominence UFLCxR system
Column	: Shim-pack XR-ODS (75 mm × 3.0 mm <i>i.d</i> .)
Mobile Phase	:10 mmol/L oxalic acid aq. / acetonitrile = 83 / 17 (v/v)
Flow Rate	: 1.0 mL/min
Column Temperature	: 40 °C
Detection	: Absorbance at 360 nm with semi-micro flow cell
Sample Volume	:4 μL



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