

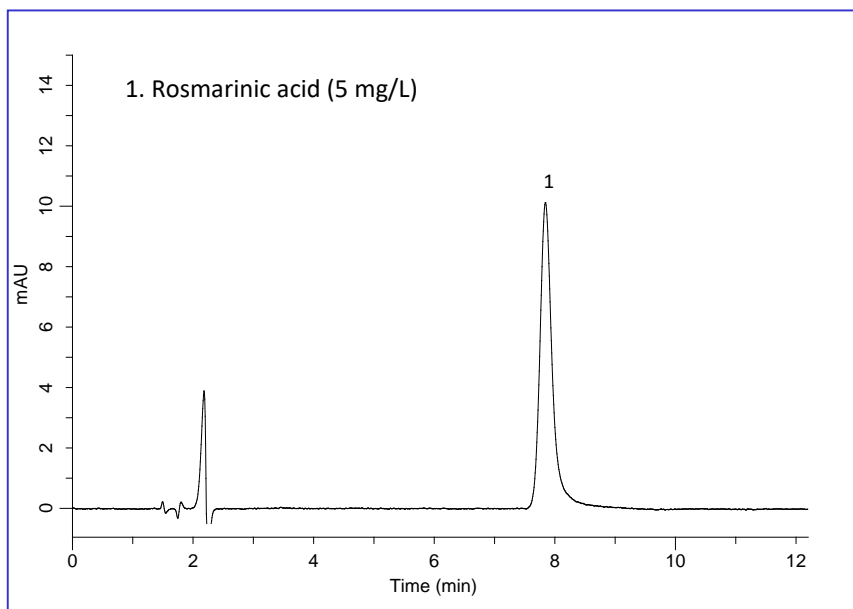
Rosmarinic acid is a type of polyphenol found in rosemary, red peaches, and other plants in the family Perilla. It is believed to be an effective antioxidant, reduces sugar absorption, and allergic symptoms such as pollinosis. It is used in health foods and other products.

In this application, rosmarinic acid in red perilla juice was analyzed under isocratic conditions.

A columns with 3.0 mm inner diameter provides excellent analysis and offers solvent saving of 60% compared to columns with 4.6 mm inner diameter.

(Y.Tanaka)

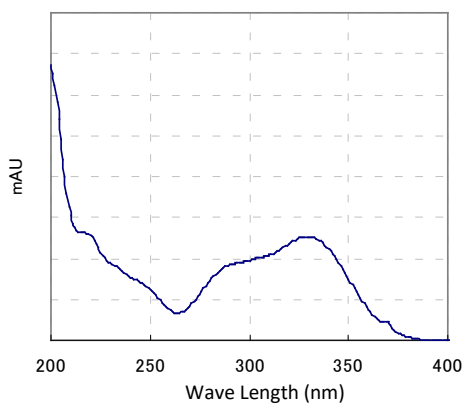
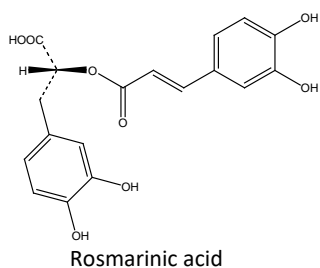
Example: Measurement of standard



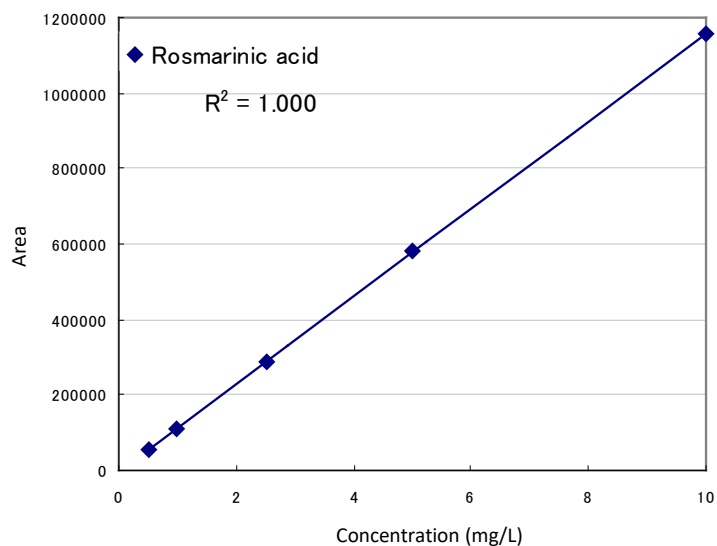
HPLC conditions

Column	: Inertsil ODS-4 (5 μ m, 150 x 3.0 mm I.D.)
Eluent	: A) CH ₃ CN B) 10mM KH ₂ PO ₄ (pH 2.0, H ₃ PO ₄) A/B = 25 / 75 (Mixed by a gradient mixer)
Flow rate	: 0.4 mL/min
Column temperature	: 40 °C
Detected	: PDA 330 nm
Injection volume	: 10 μ L

Structural formula and UV spectrum



Measure under eluent conditions

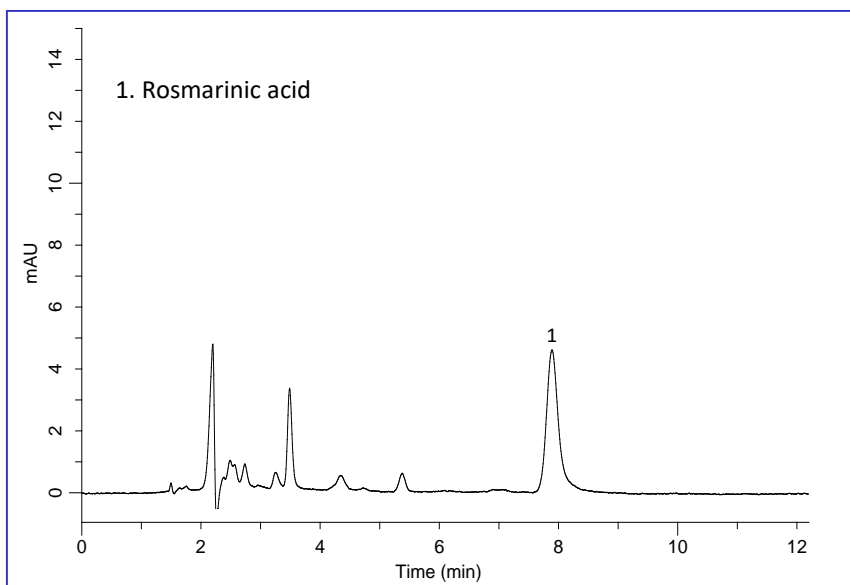


Calibration curve

Example of analysis of perilla juice

Example of pretreatment

Samples were filtered through a 0.45 µm filter (chromatodisk) and used as samples.



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