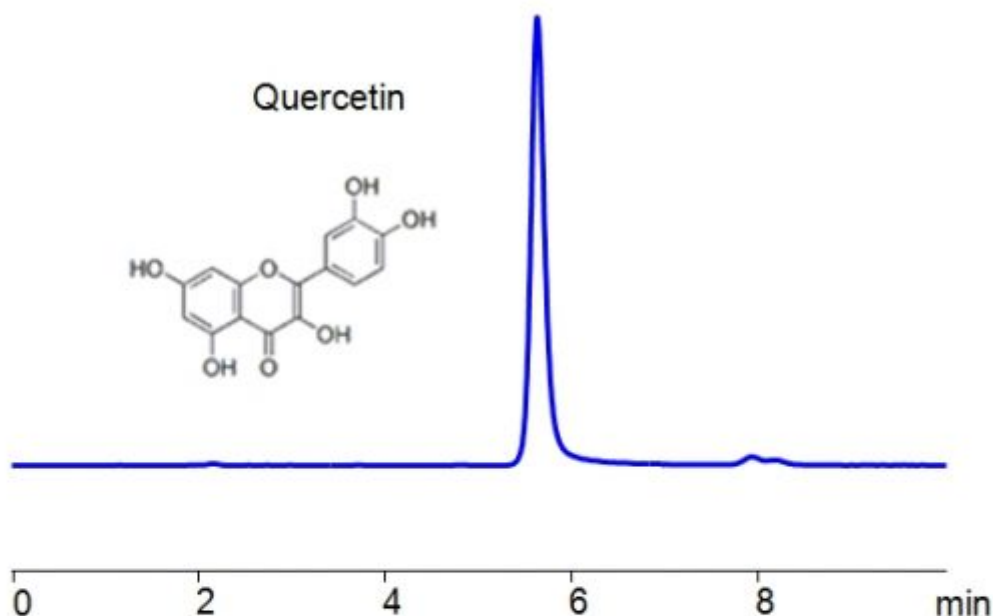


HPLC Determination of Quercetin on Primesep D Column

<https://sielc.com/hplc-determination-of-quercetin-on-primesep-d-column>

Chromatogram



Column:	Primesep D
Size:	4.6 x 150mm, 5µm, 100A
Mobile phase:	MeCN/H ₂ O/TFA -40/60/0.05
Flow:	1.0 mL/min
Detection:	UV 270 nm

Description

· High Performance Liquid Chromatography (HPLC) Method of Quercetin.

Quercetin is a naturally occurring flavonol, or flavonoid, the yellowish antioxidant pigment found in skins of red grapes, apples, berries, onions, tomatoes, and buckwheat tea. In addition to functioning as a flavonoid, quercetin is also a phytoestrogen. It has the chemical formula C₁₅H₁₀O₇.

Quercetin can be retained in HPLC using a Primesep D mixed-mode column using a mobile phase of acetonitrile (ACN), water and Trifluoroacetic acid (TFA) buffer. Detection can be achieved with UV 270 nm, mass spectrometry (MS), evaporative light scattering detection (ELSD) and Charged aerosol detection (CAD).

Method Parameters

Mobile Phase

MeCN – 40%

Buffer	TFA – 0.05%
Flow Rate	1.0 ml/min
Detection	270 nm
Class of Compounds	Phenolics compound, Flavonoid
Analyzing Compounds	Quercetin

HPLC Column Used

Primesep D, 4.6 x 150 mm, 5 µm, 100 A, dual ended

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)