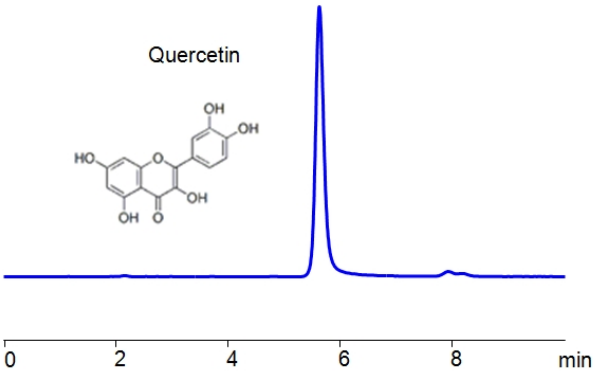
# HPLC Determination of Quercetin on Primesep D Column

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|---|---|
| **Column:** | **Primesep D** |
| **Size:** | 4.6 x 150mm, 5µm, 100A |
| **Mobile phase:** | MeCN/H2O/TFA -40/60/0.05 |
| **Flow:** | 1.0 mL/min |
| **Detection:** | UV 270 nm |

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

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|---|---|
| **Column** | Primesep D, 4.6 x 150 mm, 5 µm, 100 Å, dual ended |
| **Mobile Phase** | MeCN – 40% |
| **Buffer** | TFA – 0.05% |
| **Flow Rate** | 1.0 mL/min |
| **Detection** | 270 nm |

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