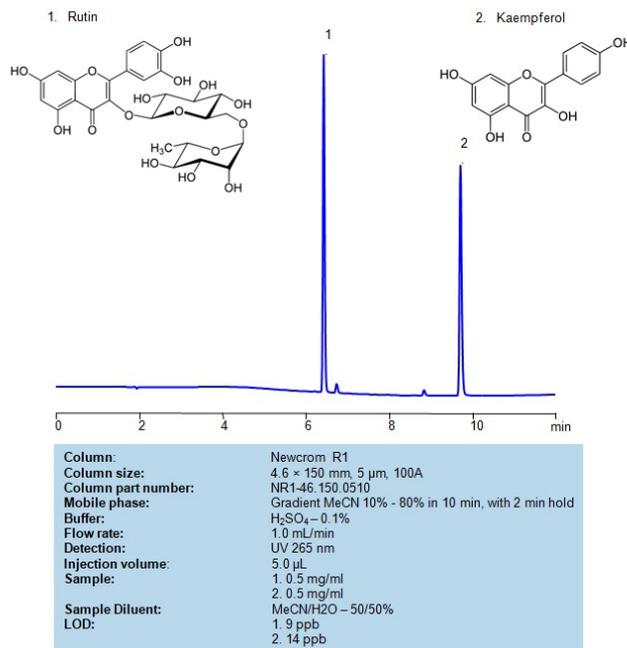


HPLC Method for Separation of Rutin and Kaempferol on Newcrom R1 Column



Separation type: Liquid Chromatography Reversed-phase

Rutin and kaempferol are both natural compounds found in various plants, particularly in fruits and vegetables. They belong to the class of flavonoids, which are a group of polyphenolic compounds known for their antioxidant properties and potential health benefits.

Both rutin and kaempferol are considered bioactive compounds, and their presence in a balanced diet rich in fruits and vegetables is associated with potential health benefits.

Rutin and kaempferol can be retained, separated and analyzed on a reversed-phase Newcrom R1 column with a mobile phase consisting of water, Acetonitrile (MeCN), and sulfuric acid. This analytical method can be detected with high resolution and peak symmetry at a wavelength of 265 nm using UV detection

Method Parameters

Column	Newcrom R1, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	Gradient MeCN – 10-90%, 10 min , 5 min hold
Buffer	H ₂ SO ₄ – 0.1%
Flow Rate	1.0 mL/min
Detection	UV 265 nm
Sample	1. 0.5 mg/ml 2. 0.5 mg/ml
Injection Volume	5.0 µL

Quelle: <https://sielc.com/hplc-determination-of-rutin-and-kaempferol>