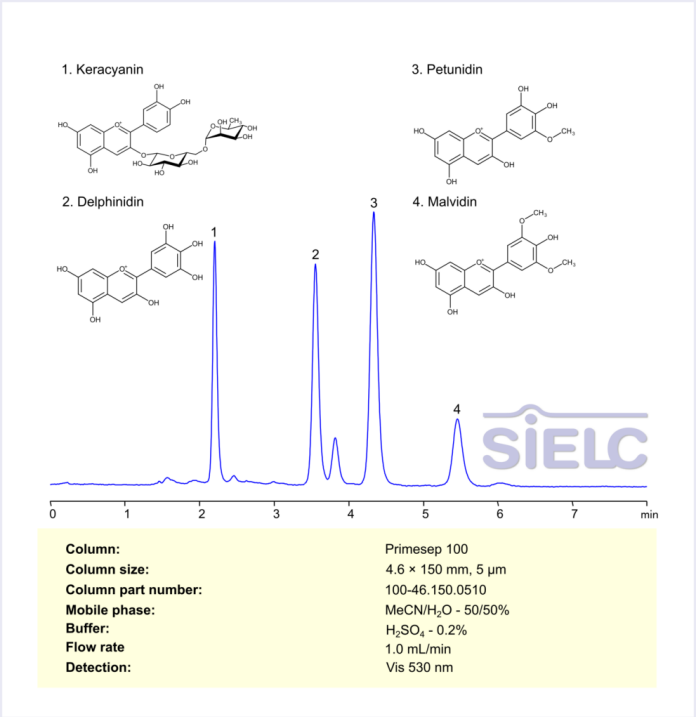
HPLC Method for Analysis of Anthocyanins (Keracyanin, Delphinidin, Petunidin, Malvidin) on Primesep 100 Column



Separation type: Liquid Chromatography Mixed-mode SIELC Technologies

Anthocyanins are a class of water-soluble pigments responsible for the red, purple, and blue colors found in many fruits, vegetables, and flowers. They belong to the flavonoid group of phytochemicals and have strong antioxidant properties.

Anthocyanins (Keracyanin, Delphinidin, Petunidin, Malvidin) can be retained, separated and analyzed using a Primesep 100 mixed-mode stationary phase column. The analysis employs an isocratic method with a simple mobile phase comprising water, acetonitrile (MeCN), and sulfuric acid as a buffer. This method allows for detection using Vis 530 nm.

You can find detailed UV-Vis spectra of Keracyanin , Delphinidin , Petunidin , Malvidin and information about its various lambda maxima by visiting the following links: Anthocyanins (Keracyanin , Delphinidin , Petunidin , Malvidin)

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 50%
Buffer	H2SO4 – 0.2%
Flow Rate	1.0 mL/min
Detection	Vis 530 nm

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Quelle: https://sielc.com/hplc-method-anthocyanins