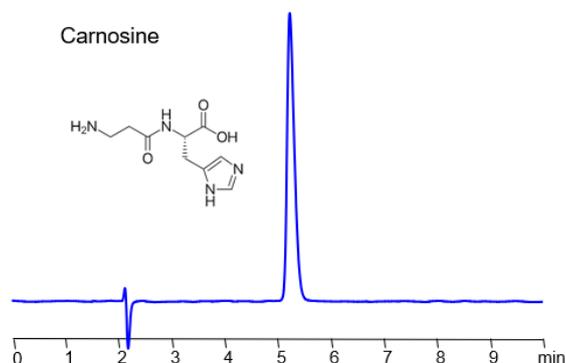


HPLC Method for Analysis of Carnosine (beta-alanyl-L-histidine) on Primesep 100 Column



Column:	Primesep 100
Column size:	4.6 × 150 mm, 5 µm
Column part number:	100-46.150.0510
Mobile phase:	MeCN/H ₂ O – 20/80%
Buffer:	TFA - 0.6%
Flow rate:	1.0 mL/min
Detection:	UV 215 nm

Separation type: Liquid Chromatography Mixed-mode

Carnosine is a dipeptide molecule synthesized from beta-alanine and histidine. It is a naturally occurring pH buffer with antioxidant properties found in muscles. This dipeptide can be retained and analyzed on a mixed-mode Primesep 100 column with a mobile phase consisting of water, Acetonitrile (MeCN), and Trifluoroacetic acid (TFA). This analytical method can be UV detected at 215 nm with high resolution and peak symmetry.

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H ₂ O – 20/80%
Buffer	TFA – 0.6%
Flow Rate	1.0 mL/min
Detection	UV 215 nm

Quelle: <https://sielc.com/hplc-determination-of-carnosine-ps-100>