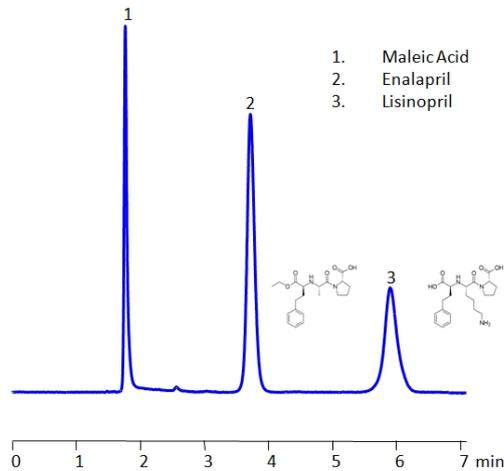


HPLC Separation of Enalapril and Lisinopril on Newcrom AH Column



Column:	Newcrom AH
Column size:	4.6 × 150 mm, 5 µm
Column part number:	NAH-46.150.0510
Mobile phase:	MeCN/H ₂ O - 50/50%
Buffer:	H ₂ SO ₄ - 0.5%
Flow rate:	1.0 mL/min
Detection:	UV 210 nm

High Performance Liquid Chromatography (HPLC) Method for Analysis of Enalapril and Lisinopril

Enalapril is an ACE inhibitor medication with the chemical formula C₂₀H₂₈N₂O₅. It is used to treat hypertension, symptomatic heart failure, and asymptomatic left ventricular dysfunction. It also exhibited the ability to reduce the progression of kidney disease. Generic versions of it began their production in 2000.

Lisinopril is a medications that work on the kidneys to help lower blood pressure. It can be used for heart failure and for people who've had a heart attack. Like Enalapril, it is an ACE inhibitor. It has the chemical formula C₂₁H₃₁N₃O₅.

By using a Newcrom AH mixed-mode column with a cation-exchange mechanism, enalapril and lisinopril, can be baseline separated in a short time using an isocratic method with a simple mobile phase of water, acetonitrile (MeCN, ACN) and a sulfuric acid (H₂SO₄) buffer. UV detection at 210 nm.

Method Parameters

Column	Newcrom AH, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H ₂ O – 50/50%
Buffer	H ₂ SO ₄ – 0.5%
Flow Rate	1.0 mL/min
Detection	UV, 210 nm

Quelle: <https://sielc.com/hplc-separation-of-enalapril-and-lisinopril>