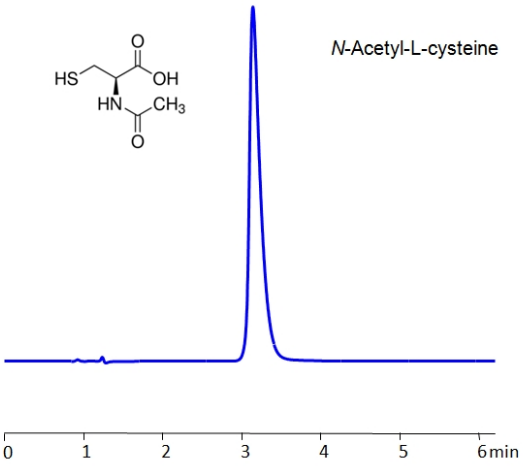
Determination N-Acetyl-L-Cysteine on Primesep SB Column



Column:	Primesep SB
Column size:	3.2 × 100 mm, 5 µm
Mobile phase:	MeCN/H2O - 20/80%
Buffer:	H3PO4– 0.3%
Flow rate:	0.5 mL/min
Detection:	200 nm

High Performance Liquid Chromatography (HPLC) Method for Analysis of N-Acetyl-L-cysteine .

N-Acetyl-L-Cysteine (NAC), also known as Acetylcysteine , is the N-acetyl derivative of the naturally occurring amino acid L-cysteine with the chemical formula C5H9NO3S . It is primarily used to treat paracetamol overdoses, chronci bronchopulmonary disorders, and lactobezoar.

N-Acetyl-L-cysteine can be retained on Primesep SB , a reverse-phase (RP) mixed-mode column with embedded strong basic ion-pairing groups, using an isocratic analytical method with a simple mobile phase of water, acetonitrile (MeCN, ACN), and phosphoric acid (H3PO4) buffer. UV detection at 200 nm.

Method Parameters

Column	Primesep SB, 3.2 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 50%
Buffer	Na2HPO4pH 4.0 – 50 mM
Flow Rate	0.5 mL/min
Detection	UV, 200 nm

Quelle: https://sielc.com/determination-n-acetyl-l-cysteine

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