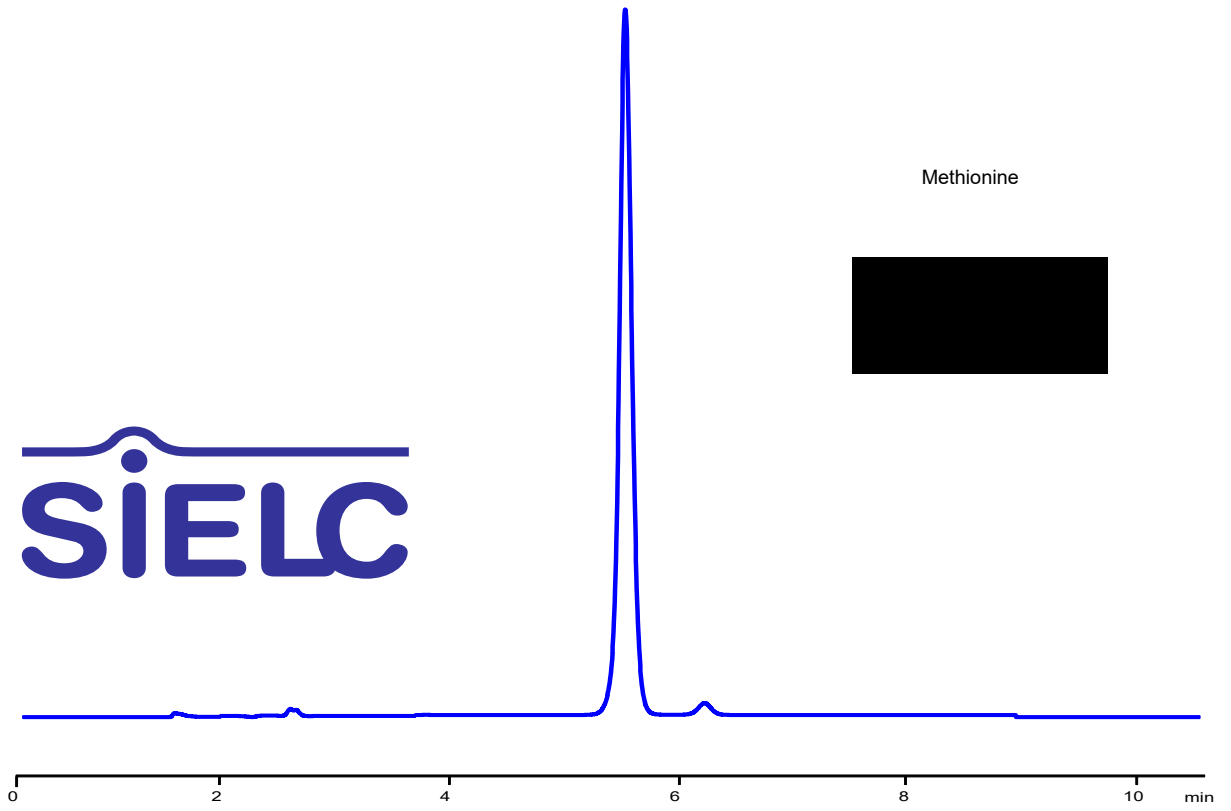
HPLC Method for Analysis of Methionine on Primesep 100 Column

https://sielc.com/hplc-method-methionine

Chromatogram



Column:	Primesep 100
Column size:	4.6 × 150 mm, 5 µm
Column part number:	100 [illegible]
Mobile phase:	MeCN [illegible]
Buffer:	H [illegible]
Flow rate	1.0 ml/min
Detection:	UV 200 nm
Concentration:	1.0 mg/ml
Injection Volume:	1 µL
Diluent:	H2O - 100%
Limit of Detection:	40 ppb

Description

· Separation type: Liquid Chromatography Mixed-mode SIELC Technologies · HPLC Method for Analysis of Methionine on Primesep 100 Column

Methionine is an essential amino acid, meaning the body cannot synthesize it, so it must be obtained through the diet. It's crucial for many bodily functions, including:

Protein Synthesis: Methionine is a building block for proteins.

Methylation: It acts as a precursor to S-adenosylmethionine (SAMe), which is involved in methylation processes that are vital for DNA regulation, detoxification, and neurotransmitter production.

Antioxidant Function: Methionine contributes to the synthesis of cysteine, which is a precursor to glutathione, one of the body's most important antioxidants.

Liver Health: It's also important for liver function and fat metabolism.

Method Parameters

Mobile Phase	MeCN – 35%
Buffer	H2SO4 – 0.05%
Flow Rate	1.0 ml/min
Detection	UV 200 nm
Limit of Detection	40 ppb
Class of Compounds	Herbicide
Analyzing Compounds	Methionine

HPLC Column Used

Primesep 100, 4.6 x 150 mm, 5 µm, 100 A, dual ended

Order this column at hplc-shop.de →