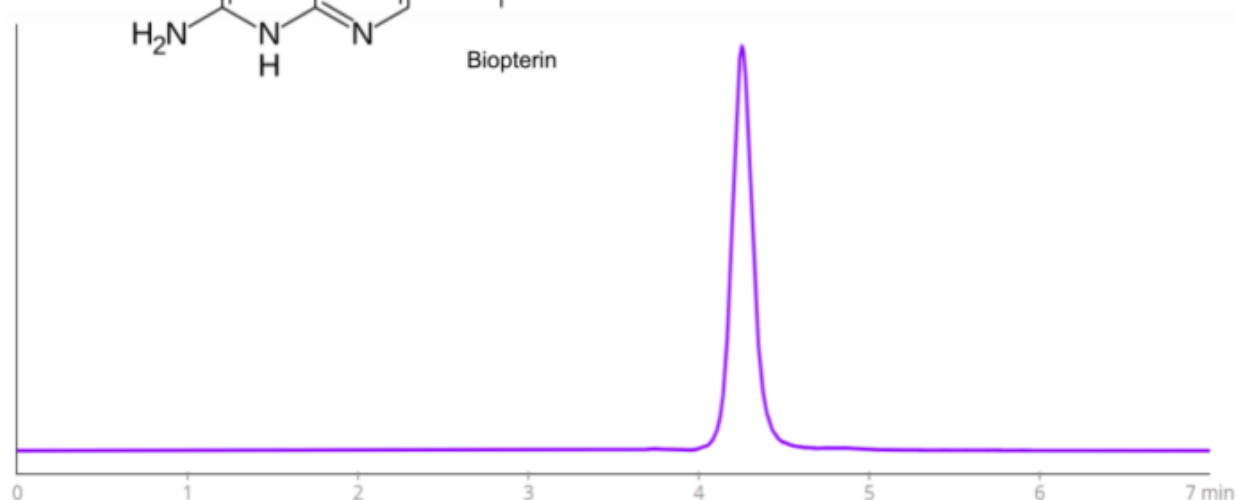
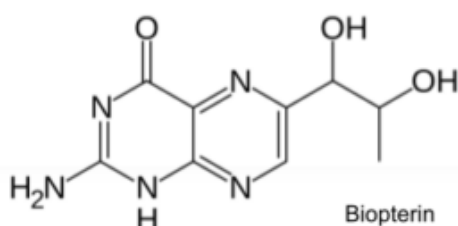


HPLC Method for Analysis of Biopterin on Primesep 100 Column on Alltesta™

<https://sielc.com/hplc-method-for-analysis-of-biopterin>

Chromatogram

SiELC



Column	Primesep 100
Column Size	4.6 x 150 mm, 5 µm
Part Number	100-46.150.0510
Mobile Phase	MeCN/H ₂ O - 5/95%
Buffer	AmFm pH 3.0- 20 mM
Flow Rate	1.0 mL/min
Injection Volume	1 µL
Detection	UV 275 nm
Device	Alltesta™ Gradient Automated Analyzer

Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Biopterin

Biopterin is a pterin derivative with the chemical formula C₉H₁₁N₅O₃. As a cofactor for aromatic amino acid hydroxylases, it is a part of the synthesis of neurotransmitters like dopamine, serotonin, and norepinephrine. A biopterin imbalance can lead to a variety of disorders, most of which lead to neurological problems.

Biopterin can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with ammonium formate as a buffer. Detection is

performed using UV.

Method Parameters

Mobile Phase	MeCN – 50%
Buffer	Ammonium Formate
Flow Rate	1.0 mL/min
Detection	UV 275 nm
Class of Compounds	Organic Compound
Analyzing Compounds	Biopterin

HPLC Column Used

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

[Order this column at hplc-shop.de →](#)