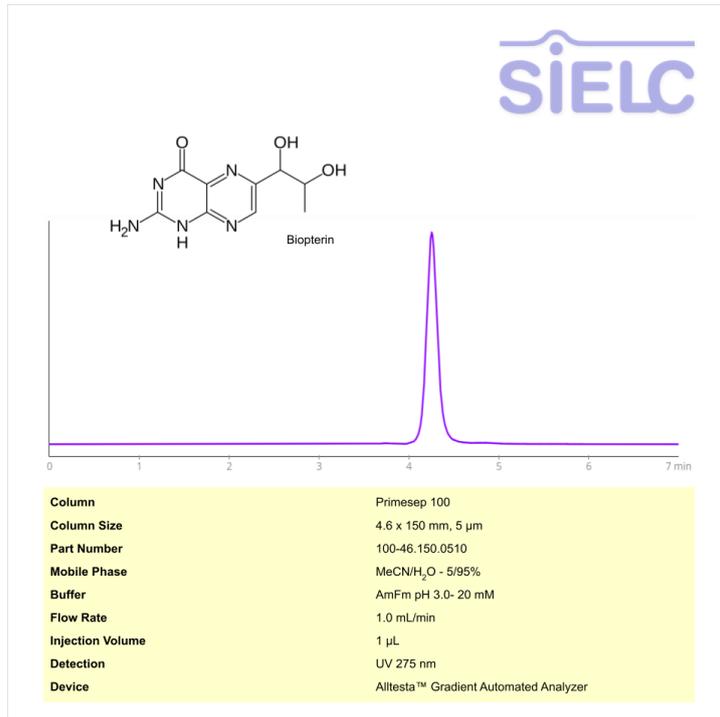


## HPLC Method for Analysis of Biopterin on Primesep 100 Column on Alltesta™



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

Biopterin is a pterin derivative with the chemical formula C<sub>9</sub>H<sub>11</sub>N<sub>5</sub>O<sub>3</sub>. 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

<b>Column</b>	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
<b>Mobile Phase</b>	MeCN – 50%
<b>Buffer</b>	Ammonium Formate
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	UV 275 nm

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