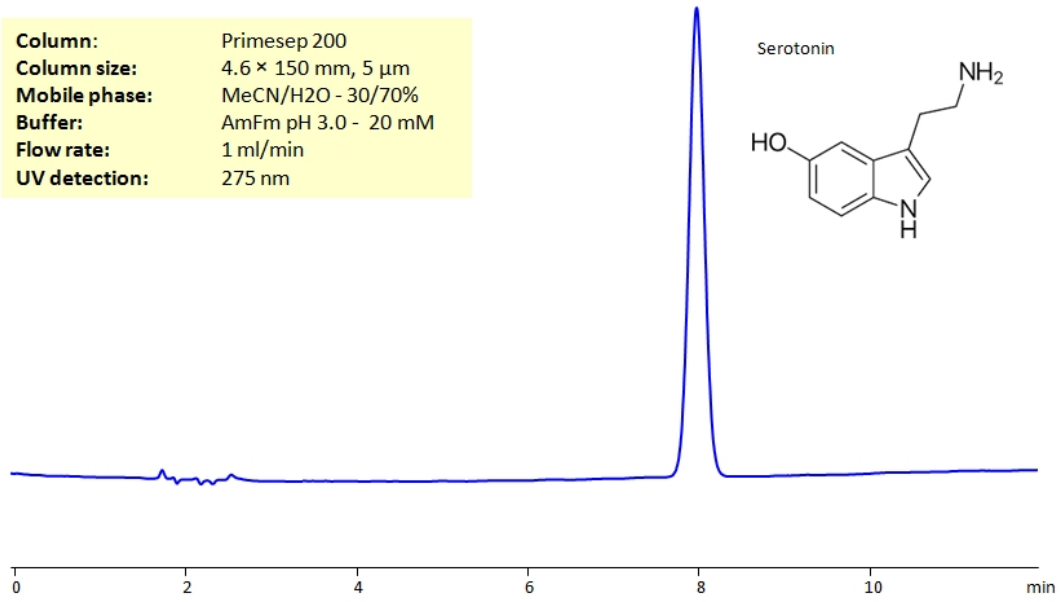
HPLC Determination of Serotonin on Primesep 200 Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Serotonin .

Serotonin is a neurotransmitter derived from tryptophan with the chemical formula C10H12N2O . Serotonin is a chemical messenger that is crucial for bodily functions. It helps regulate mood and reduce anxiety, digestion, blood clotting, and contributes to the sleep-wake cycle. Low serotonin levels are often associated with a variety of mental illnesses including but not limited to Obsessive Compulsive Disorder (OCD), Post-Traumatic Stress Disorder (PTSD), Depression, and Anxiety.

Serotonin can be retained and analyzed using the Primesep 200 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with an ammonium formate buffer. Detection is performed using UV.

Method Parameters

Column	Primesep 200, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 30/70%
Buffer	AmFm pH 3.0- 20 mM
Flow Rate	1.0 mL/min
Detection	UV 275 nm, MS-compatible mobile phase

Quelle: https://sielc.com/hplc-determination-of-serotonin-on-primesep-200-column

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