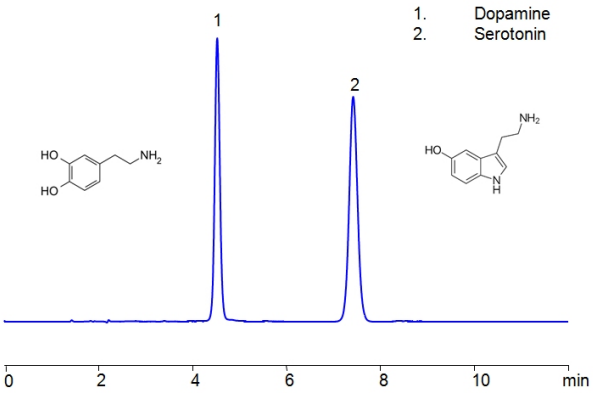
HPLC Method For Analysis Of Dopamine and Serotonin on Primesep 200 Column



Column:	Primesep 200
Column part number:	200-46.150.0510
Column size:	4.6 × 150 mm, 5 µm
Mobile phase:	MeCN – 20 %
Buffer:	Ammonium Formate - 40 mM pH 3.0
Flow rate:	1 mL/min
UV Detection:	280 nm

Separation type: Liquid Chromatography Mixed-mode

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

Dopamine is a key neurotransmitter and medical stimulant used to treat low blood pressure, low heart rate, and heart attacks. Serotonin is another key neurotransmitter that has pharmaceutical applications – namely as the key ingredient in antidepressant and anti-anxiety medications.These two neurotransmitters can be retained, separated, and analyzed on a Primesep 200 mixed-mode column using an isocratic analytical method with a simple mobile phase of water, Acetonitrile (MeCN), and an Ammonium Formate (AmFm) buffer. This analysis method can be UV detected at 280 nm with high resolution and peak symmetry.

Method Parameters

Column	Primesep 200, 4.6×150 mm, 5 µm, 100 Å
Mobile Phase	MeCN/H2O – 20/80%
Buffer	Ammonium Formate pH 3.0 – 40 mM
Flow Rate	1.0 mL/min
Detection	UV, 280 nm,

Quelle: https://sielc.com/hplc-method-for-analysis-of-dopamine-and-serotonin

AugustaChrom - Dr. Roland Kießwetter
Tel.: +49 821 599 783 70
Fax: +49 821 599 783 71
E-Mail: info@hplc-shop.de