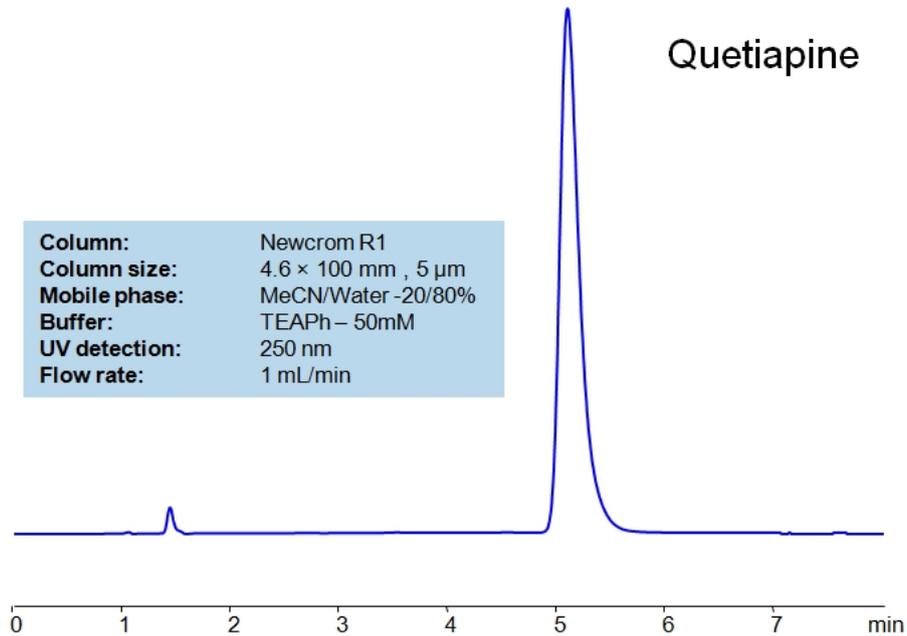


HPLC Method for Analysis of Quetiapine in Tablets on Newcrom R1 Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Quetiapine

Quetiapine is an antipsychotic medication with the molecular formula of $C_{21}H_{25}N_3O_2S \cdot 1/2C_4H_4O_4$. It is only available through prescription to treat a variety of mental health disorders. It blocks neurotransmitters in the brain, and by altering levels of the chemicals produced, it can help regulate behavior.

Quetiapine can be retained and analyzed using the Newcrom R1 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a Triethanolamine buffer. Detection is performed using UV.

Method Parameters

Column	Newcrom R1, 4.6 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H ₂ O – 20/80%
Buffer	TEAPh – 50 mM
Flow Rate	1.0 mL/min
Detection	UV, 250 nm

Quelle: <https://sielc.com/hplc-method-for-analysis-of-quetiapine-in-tablets>