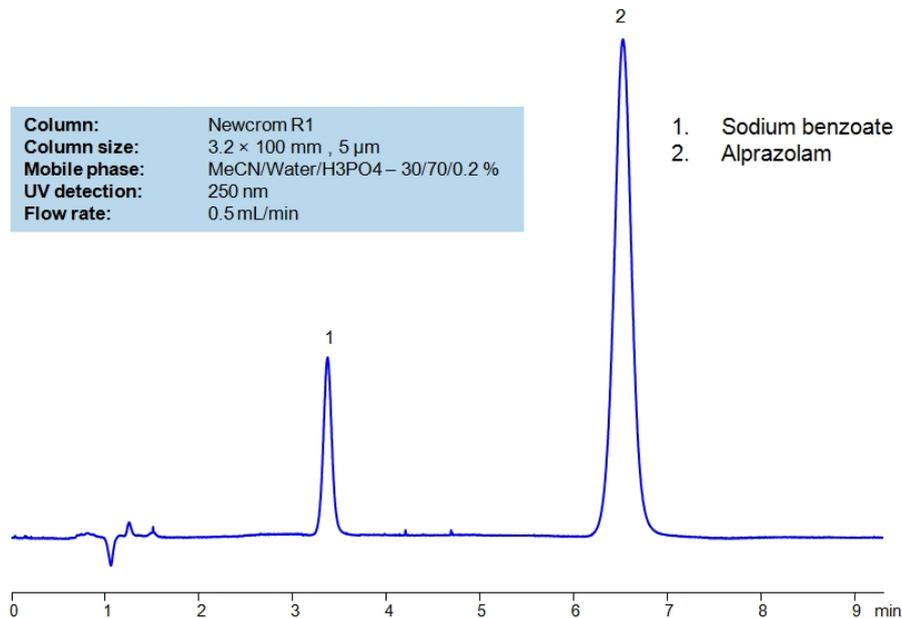


HPLC Method For Analysis Of Alprazolam on Newcrom R1 Column



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

Alprazolam, also known as Xanax, is a prescription medication with the $C_{17}H_{13}ClN_4$ molecular formula. It is typically used to treat anxiety and panic disorders. It works through enhancing the effects of GABA, which is a calming neurotransmitter in the brain.

Alprazolam 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 phosphoric acid buffer. Detection is performed using UV.

Method Parameters

Column	Newcrom R1, 3.2 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H ₂ O – 30/70%
Buffer	H ₃ PO ₄ – 0.2%
Flow Rate	0.5 mL/min
Detection	UV, 250 nm

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