

HPLC Method for Analysis of Adenine on Primesep 100 Column with Cromite™



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

Adenine is a chemical compound with the molecular formula $C_5H_5N_9$. It is a building block for DNA and RNA as one of the four essential nucleotide bases. It is vital as a part of the main energy-carrying molecule in cells. When in DNA, it pairs with thymine, while in RNA, it pairs with uracil.

Adenine 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 a sulfuric acid buffer. Detection is performed using UV.

Method Parameters

Column	Primesep 100, 3.2 x 100 mm, 5 μ m, 100 Å, dual ended
Mobile Phase	MeCN – 50%
Buffer	Sulfuric Acid
Flow Rate	0.5 mL/min
Detection	UV 275 nm

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