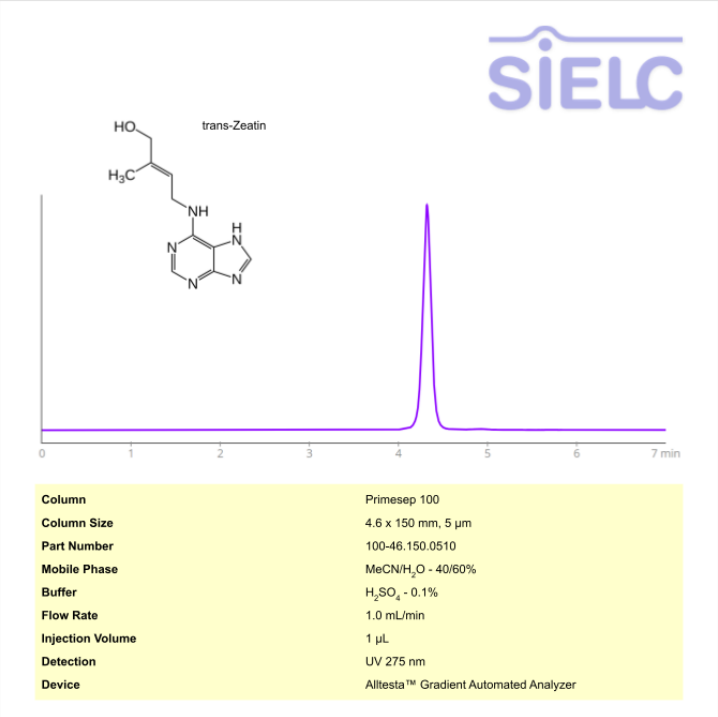
HPLC Method for Analysis of trans-Zeatin on Primesep 100 Column on Alltesta™



High Performance Liquid Chromatography (HPLC) Method for Analysis of trans-Zeatin

trans-Zeatin is a cytokinin derived from adenine with two forms, cis- and trans-isomer. It has the chemical formula C10H13N5O . It promotes callus initiation and fruit set, delays yellowing for vegetables, and causes auxiliary stems to grow. You can find detailed UV spectra of trans-Zeatin and information about its various lambda maxima by visiting the following link.

trans-Zeatin 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 sulfuric acid as a buffer. Detection is performed using UV.

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 40%
Buffer	Sulfuric Acid
Flow Rate	1.0 mL/min
Detection	UV 275 nm

Quelle: https://sielc.com/hplc-method-for-analysis-of-trans-zeatin