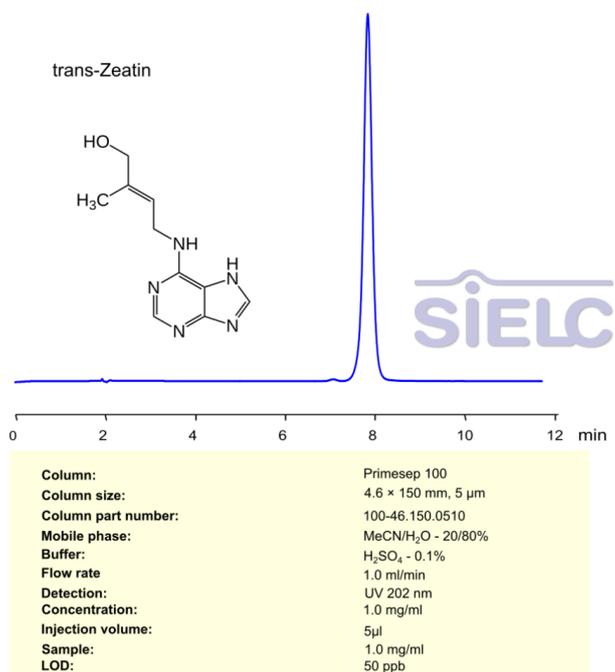


HPLC Method for Analysis of trans-Zeatin on Primesep 100 Column



Separation type: Liquid Chromatography Mixed-mode SIELC Technologies

trans-Zeatin is a type of cytokinin, a class of plant hormones that promote cell division and growth, delay aging, and play a crucial role in plant development. It is one of the most active and common forms of zeatin found in plants.

It is often involved in various physiological processes, including seed germination, leaf formation, and root and shoot differentiation.

trans-Zeatin can be retained, separated and analyzed using a Primesep 100 column. The analysis employs an isocratic method with a simple mobile phase comprising water, acetonitrile (MeCN) and Sulfuric acid as a buffer. This method allows for detection using Vis 200 nm.

You can find detailed UV spectra of trans-Zeatin and information about its various lambda maxima by visiting the following link .

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H ₂ O- 20/80%
Buffer	H ₂ SO ₄ – 0.1%
Flow Rate	1.0 mL/min
Detection	UV 202 nm
Limit of Detection	50 ppb
Sample	1 mg/ml

Quelle: <https://sielc.com/hplc-ms-method-trans-zeatin>