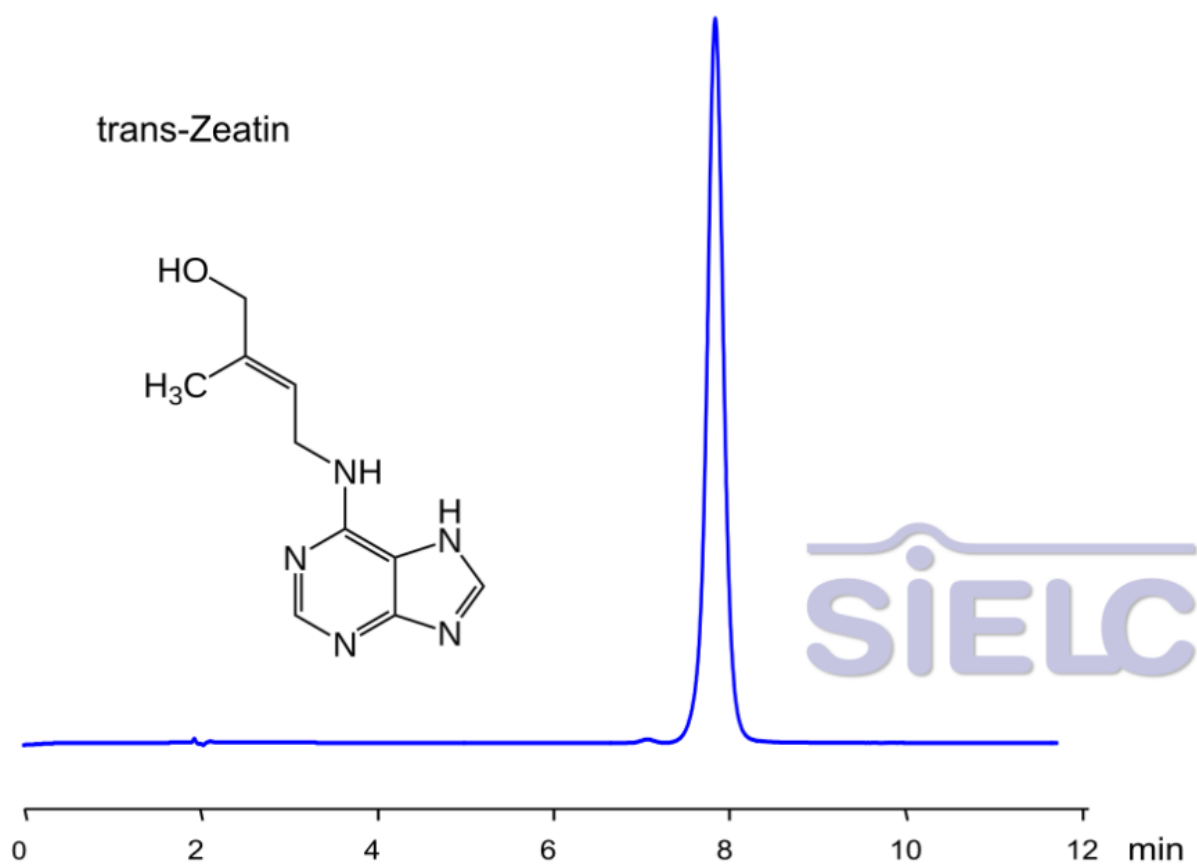


HPLC Method for Analysis of trans-Zeatin on Primesep 100 Column

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

Chromatogram



Column:	Primesep 100
Column size:	4.6 × 150 mm, 5 µm
Column part number:	100-46.150.0510
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
Concentration:	1.0 mg/ml
Injection volume:	5 µl
Sample:	1.0 mg/ml
LOD:	50 ppb

Description

· Separation type: Liquid Chromatography Mixed-mode SIELC Technologies · HPLC Method for Analysis of trans-Zeatin on Primesep 100 Column

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

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
Sample	1 mg/ml
Solvent	MeCN/H ₂ O- 20/80%
LOD	50 ppb
Class of Compounds	Cytokinin, Plant hormones
Analyzing Compounds	trans-Zeatin

HPLC Column Used

Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)