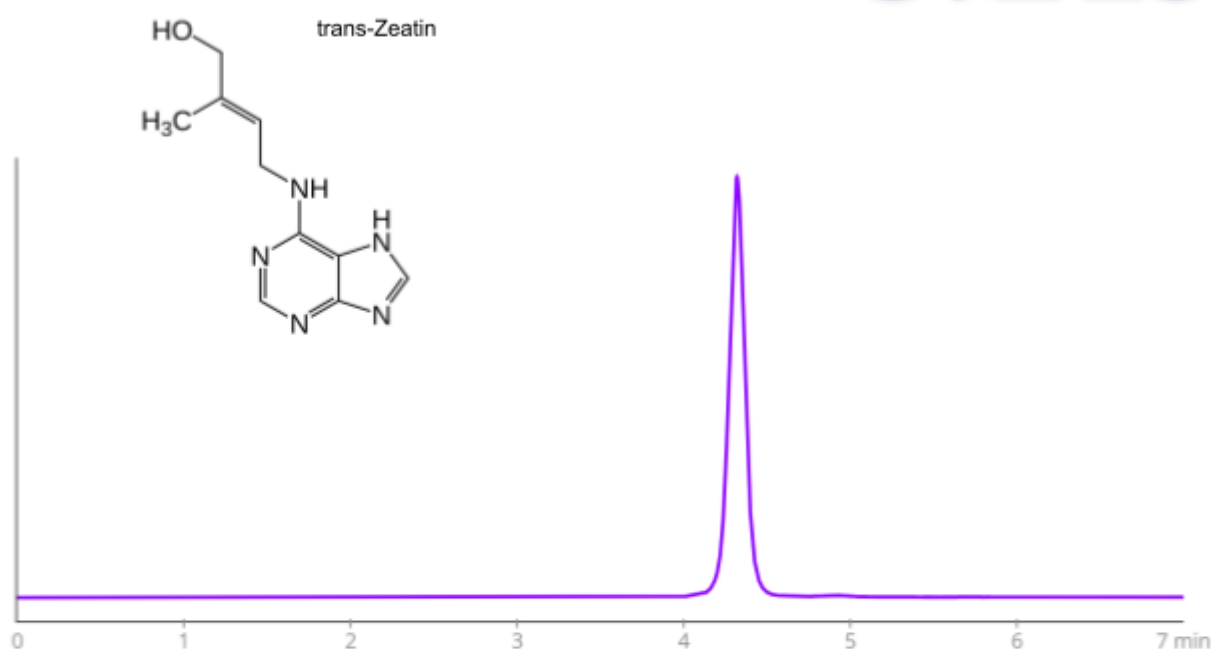


# HPLC Method for Analysis of trans-Zeatin on Primesep 100 Column on Alltesta™

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

## Chromatogram

sielc



|                         |                                       |
|-------------------------|---------------------------------------|
| <b>Column</b>           | Primesep 100                          |
| <b>Column Size</b>      | 4.6 x 150 mm, 5 µm                    |
| <b>Part Number</b>      | 100-46.150.0510                       |
| <b>Mobile Phase</b>     | MeCN/H <sub>2</sub> O - 40/60%        |
| <b>Buffer</b>           | H <sub>2</sub> SO <sub>4</sub> - 0.1% |
| <b>Flow Rate</b>        | 1.0 mL/min                            |
| <b>Injection Volume</b> | 1 µL                                  |
| <b>Detection</b>        | UV 275 nm                             |
| <b>Device</b>           | Alltesta™ Gradient Automated Analyzer |

## Description

· 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 C<sub>10</sub>H<sub>13</sub>N<sub>5</sub>O. 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

|                     |               |
|---------------------|---------------|
| Mobile Phase        | MeCN – 40%    |
| Buffer              | Sulfuric Acid |
| Flow Rate           | 1.0 mL/min    |
| Detection           | UV 275 nm     |
| Class of Compounds  | Cytokinin     |
| Analyzing Compounds | trans-Zeatin  |

## HPLC Column Used

**Primesep 100, 4.6 x 150 mm, 5 µm, 100 A, dual ended**

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