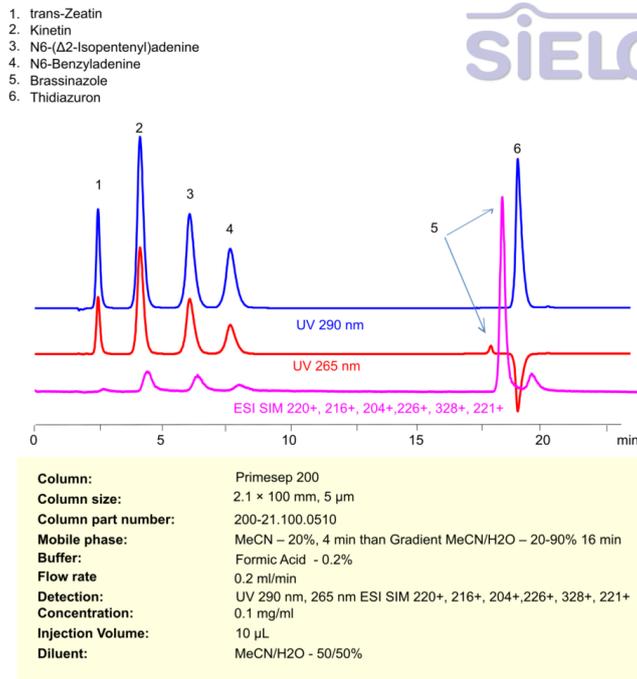


HPLC MS Method for the Analysis of Cytokinins: A Phytohormone Class and Brassinazole on Primesep 200 Column



Separation type: Liquid Chromatography Mixed-mode SIELC Technologies

It looks like you're listing a series of compounds, most of which are cytokinins or related plant hormones. Here's a brief overview and classification for the compounds you mentioned:

N6-(Δ^2 -Isopentenyl)adenine (iP):

N6-Benzyladenine (BA):

trans-Zeatin, Kinetin, N6-(Δ^2 -Isopentenyl)adenine, Thidiazuron, 6-Benzylaminopurine, Brassinazole can be retained, separated and analyzed using a Primesep 200 mixed-mode stationary phase column. The analysis employs an isocratic method with a simple mobile phase comprising water, acetonitrile (MeCN), and formic acid as a buffer. This method allows for detection using UV 290, 265 nm.

You can find detailed UV spectra of trans-Zeatin, Kinetin, N6-(Δ^2 -Isopentenyl)adenine, Thidiazuron, 6-Benzylaminopurine, Brassinazole and information about its various lambda maxima by visiting the following link .

Method Parameters

Column	Primesep 200, 2.1 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 20%, 4 min than Gradient MeCN/H2O – 20-90% 16 min
Buffer	Formic Acid -0.2%
Flow Rate	0.2 mg/ml
Detection	UV 290 nm, 265 nm ESISIM220+, 216+, 204+,226+, 328+, 221+

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