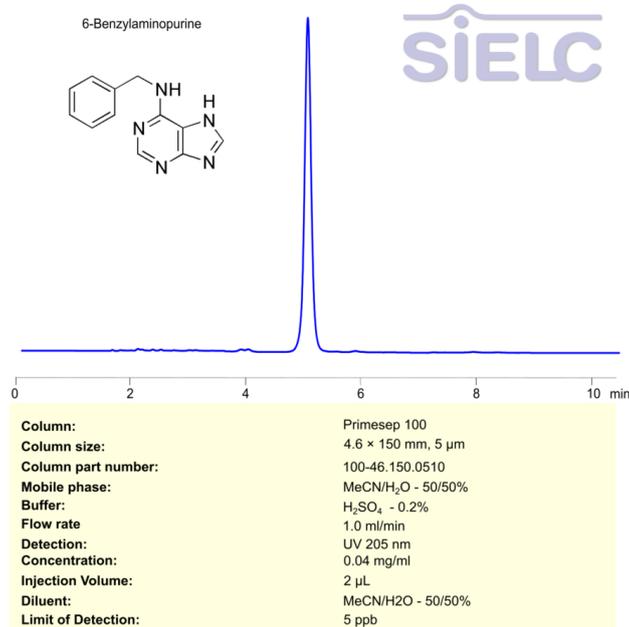


HPLC Method for Analysis of 6-Benzylaminopurine (N6-Benzyladenine) on Primesep 100 Column



Separation type: Liquid Chromatography Mixed-mode SIELC Technologies

6-Benzylaminopurine (N6-Benzyladenine, 6-BAP or BAP) is a synthetic cytokinin commonly used in plant biology and tissue culture to stimulate cell division and growth. It is a potent growth regulator and is applied to enhance plant tissue differentiation, particularly for shoot induction.

6-Benzylaminopurine is one of the most commonly used cytokinins in horticulture and laboratory studies.

6-Benzylaminopurine can be retained, separated and analyzed using a Primesep 100 mixed-mode stationary phase 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 UV 210 nm.

You can find detailed UV spectra of 6-Benzylaminopurine 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 – 50%
Buffer	H2SO4 -0.2%
Flow Rate	1.0 mL/min
Detection	UV 205 nm
Sample	0.1 mg/ml

Quelle: <https://sielc.com/hplc-method-6-benzylaminopurine>