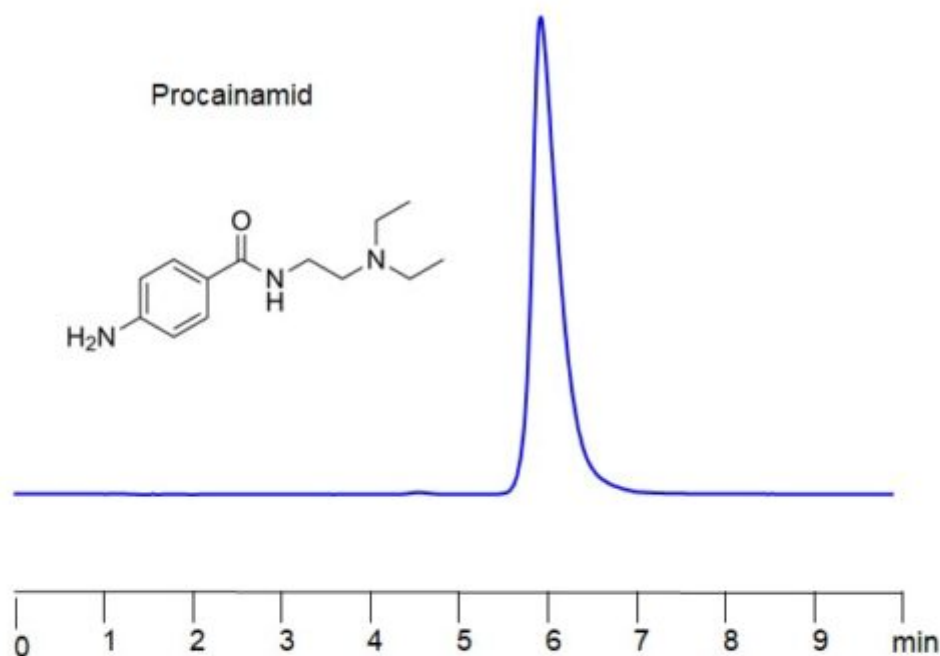


HPLC MS Method for Analysis of Procainamide on Primesep 200 Column

<https://sielc.com/hplc-ms-method-for-analysis-procainamide>

Chromatogram



Column:	Primesep 200
Column size:	2.1 × 100 mm, 5 µm
Column part number:	200-21.100.0510
Mobile phase:	Gradient MeCN – 30-60%, 10 min
Buffer:	Ammonium formate pH 3.0 – 10 mM
Flow rate:	0.2 mL/min
Sample:	0.15 mg/ml
Injection volume:	5 µl
LOD:	30 ppb
Detection:	UV 280 nm, SIM + 236

Description

· HPLC Method for Analysis of Procainamide on Primesep 200 Column by SIELC Technologies

Procainamide is an antiarrhythmic medication with the chemical formula $C_{13}H_{21}N_3O$. It belongs to the Class Ia antiarrhythmic drugs. It is used to treat certain types of abnormal heart rhythms (arrhythmias) by stabilizing the cell membrane and reducing excitability in the heart muscle. Procainamide works by inhibiting sodium channels in cardiac cells, prolonging the action potential duration and refractory period, which helps in controlling irregular heartbeats. It is typically administered intravenously or orally under medical supervision. You can find detailed UV spectra of Procainamide and information about its various lambda maxima by visiting the following link.

Procainamide can be retained and analyzed using a [column] mixed-mode stationary phase column. The analysis employs an isocratic method with a simple mobile phase comprising water, acetonitrile (MeCN), and ammonium formate as a buffer. This method allows for detection using UV at 280 nm

Method Parameters

Mobile Phase	Gradient MeCN 30-60%, 10 min
Buffer	AmFm pH 3.0 – 10 mM
Flow Rate	0.2 ml/min
Detection	UV 280nm, SIM + 236
Samples	0.15mg/ml
Injection volume	5 µl
LOD*	30 ppb
Class of Compounds	Antiarrhythmic agent, Amide
Analyzing Compounds	Procainamide

HPLC Column Used

Primesep 200, 2.1 x 100 mm, 5 µm, 100 A, dual ended

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