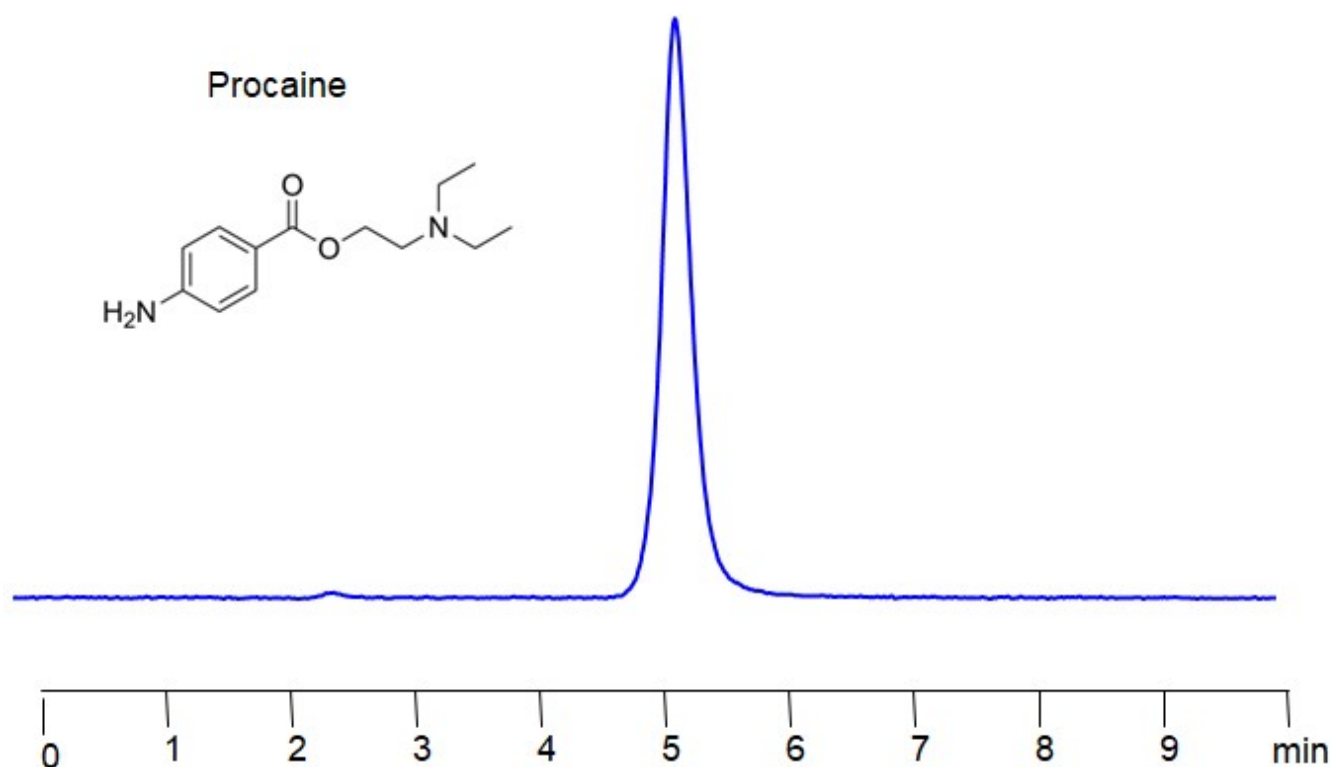


HPLC MS Method for Analysis of Procaine on Primesep 200 Column

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

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 – 30 mM
Flow rate:	0.2 mL/min
Sample:	0.02 mg/ml
Injection volume:	5 µl
LOD:	50 ppb
Detection:	UV 294 nm, SIM + 237

Description

· HPLC Method for Analysis of Procaine on Primesep 100 Column by SIELC Technologies

Procaine is a local anesthetic drug with the chemical formula $C_{13}H_{20}N_2O_2$. It belongs to the amino ester group of local anesthetics. It is employed for local anesthesia, providing pain relief in various medical and dental settings. Procaine works by blocking nerve impulses and causing temporary loss of sensation in a specific area of the body. It is usually administered through injection to induce local anesthesia. You can find detailed UV spectra of Procainamide, Procaine and information about its

various lambda maxima by visiting the following link.

Procaine can be retained 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 ammonium formate as a buffer. This method allows for detection using UV at 294 nm

Method Parameters

Mobile Phase	Gradient MeCN 30-60%, 10 min
Buffer	AmFm pH 3.0 – 30 mM
Flow Rate	0.2 ml/min
Detection	UV 294 nm, SIM + 237
Samples	0.02 mg/ml
Injection volume	5 µl
LOD*	200 ppb
Class of Compounds	Amide
Analyzing Compounds	Procaine

HPLC Column Used

Primesep 200, 10 x 100 mm, 5 µm, 100 A, dual ended

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