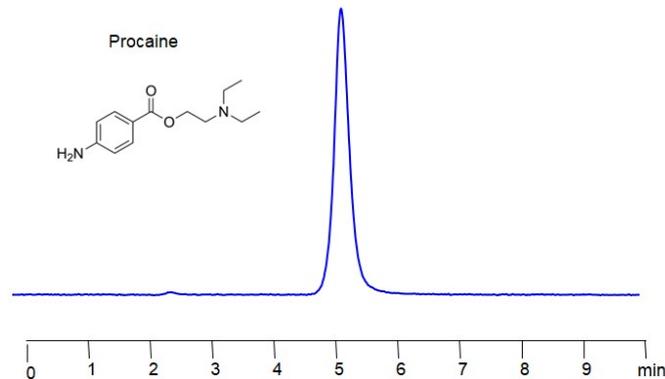


HPLC MS Method for Analysis of Procaine on Primesep 200 Column



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

Separation type: Liquid Chromatography Mixed-mode SIELC Technologies

Procaine is a local anesthetic drug that belongs to the class of amino esters. It is often used to numb specific areas of the body during medical procedures or minor surgeries. Procaine works by blocking nerve signals in the body, leading to a temporary loss of sensation in the treated area.

Some common uses of procaine include dental procedures, minor skin surgeries, and as an ingredient in certain formulations for pain relief. It is often combined with other medications, such as benzyl alcohol, to enhance its stability and effectiveness.

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

Column	Primesep 200, 10 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	Gradient MeCN30-60%, 10 min
Buffer	AmFm pH 3.0 – 30 mM
Flow Rate	0.2 mL/min
Detection	UV 294 nm, SIM + 237
Injection Volume	5 µl

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