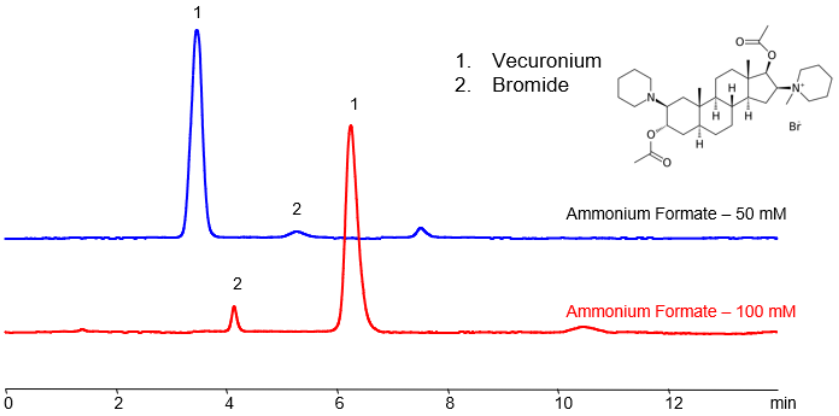
HPLC Method for Determination of Vecuronium on Primesep SB Column



Column:	Primesep SB
Column size:	2.1 × 100 mm, 5 µm
Column part number:	SB-21.100.0510
Mobile phase:	MeCN/H_2O -10/90 %
Buffer:	Ammonium Formate pH 3.0
Flow rate:	0.2 mL/min
Detection:	ELSD, 50C

High Performance Liquid Chromatography (HPLC) Method for Analysis of Vecuronium bromide

Vecuronium bromide , also known as Norcuron , is a muscle relaxant with the chemical formula C34H57BrN2O4 . It is primarily used during surgery and executions by lethal injection. Reversal of vecuronium's effects can be achieved through administration sugammadex.

HPLC methods for Vecuronium bromide are of great interest to pharmaceutical research and industry. Vecuronium bromide can be separated and retained on a mixed-mode stationary phase Primesep SB column with embedded strong basic ion-pairing groups, using an isocratic analytical method with a simple mobile phase of water, Acetonitrile (MeCN), and an Ammonium Formate (AmFm) ionic modifier. This analysis method can be UV detected at 260 nm with high resolution and peak symmetry and is compatible with Mass Spectrometry (MS), ELSD, and CAD.

Method Parameters

Column	Primesep SB, 2.1 x 100 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 10%
Buffer	Ammonium Formate pH 3.0 – 50 mM, 100 mM
Flow Rate	0.2 mL/min
Detection	ELSD, 50C

Quelle: https://sielc.com/hplc-method-for-simultaneous-determination-of-nicotinic-acid-nicotinamide-pyridine-dicarboxylic-acid-ethyl-methyl-pyridine-and-ethyl-nicotinate-2-2-2