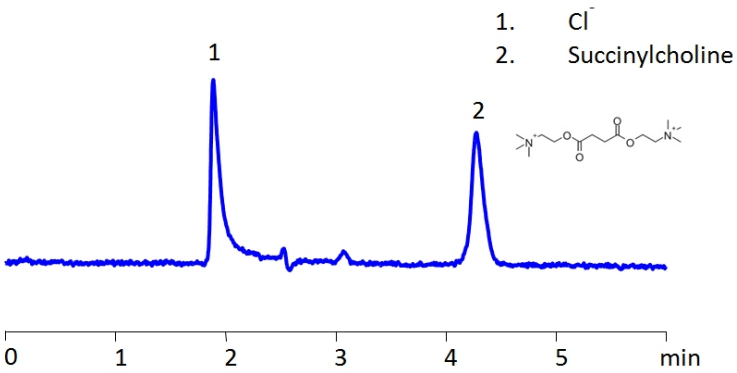
HPLC Determination of Succinylcholine on Newcrom AH Column



Column:	Newcrom AH
Column size:	4.6 × 150 mm, 5 µm
Column part number:	NAH-46.150.0510
Mobile phase:	MeCN/H_2O – 15/85%
Buffer:	$HClO_4$ – 0.85 %
Flow rate:	1.0 mL/min
Detection:	UV 200 nm

High Performance Liquid Chromatography (HPLC) Method for Analysis of Succinylcholine

Succinylcholine chloride is a short-acting depolarizing neuromuscular blocker used as a short-term muscle relaxant. Succinylcholine is often used as an adjunct therapy in patients undergoing electroconvulsive shock therapy to control muscle contractions that are induced as a result of the electrical impulses delivered during the procedure.

By using a Newcrom AH mixed-mode column with a cation-exchange mechanism, Succinylcholine can be determinate in a short time using an isocratic method with a simple mobile phase of water, acetonitrile (MeCN, ACN) and a perchloric acid (HClO4) buffer. UV detection at 200 nm.

Method Parameters

Column	Newcrom AH, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O – 15/85%
Buffer	HClO4 – 0.85%
Flow Rate	1.0 mL/min
Detection	UV, 200 nm

Quelle: https://sielc.com/hplc-determination-of-succinylcholine-on-newcrom-ah-column

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