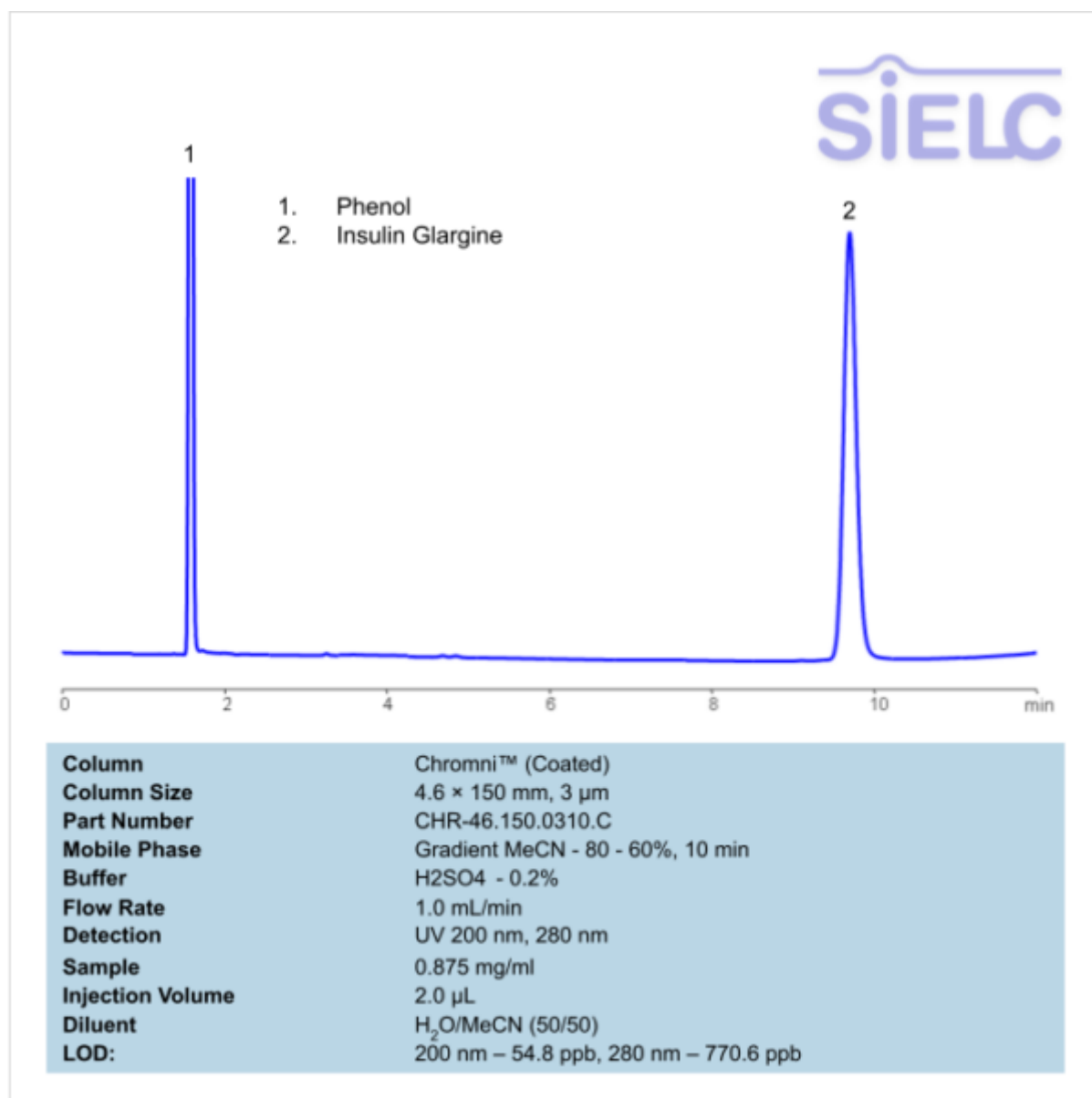


HPLC Method for Analysis of Insulin Glargine on Chromni Column

<https://sielc.com/hplc-analysis-of-insulin-glargine>

Chromatogram



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Insulin Glargine

Insulin Glargine is a modified form of medical insulin with the molecular formula C₂₆₇ H₄₀₄ N₇₂ O₇₈ S₆. It is used in management of type 1 and type 2 diabetes. Insulin glargine differs from human insulin by replacing asparagine with glycine in position 21 of the A-chain. The patent within the European Union and the United States in 2014.

Insulin Glargine is analyzed using a Chromni stationary phase column under gradient conditions with a mobile phase composed of acetonitrile (MeCN) and water. Detection is performed by UV absorbance detection.

Method Parameters

Mobile Phase

MeCN/H₂O- 80/20 – 60/40%, 10 min

Buffer	H2SO4 – 0.2%
Flow Rate	1.0 mL/min
Detection	UV 200 nm, UV 280 nm
Limit of Detection*	200 nm – 54.8 ppb, 280 nm – 770.6 ppb
Class of Compounds	Medication
Analyzing Compounds	Insulin Glargine

HPLC Column Used

Chromni, 4.6 x 150 mm, 3 µm, 100 Å, surface coated

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