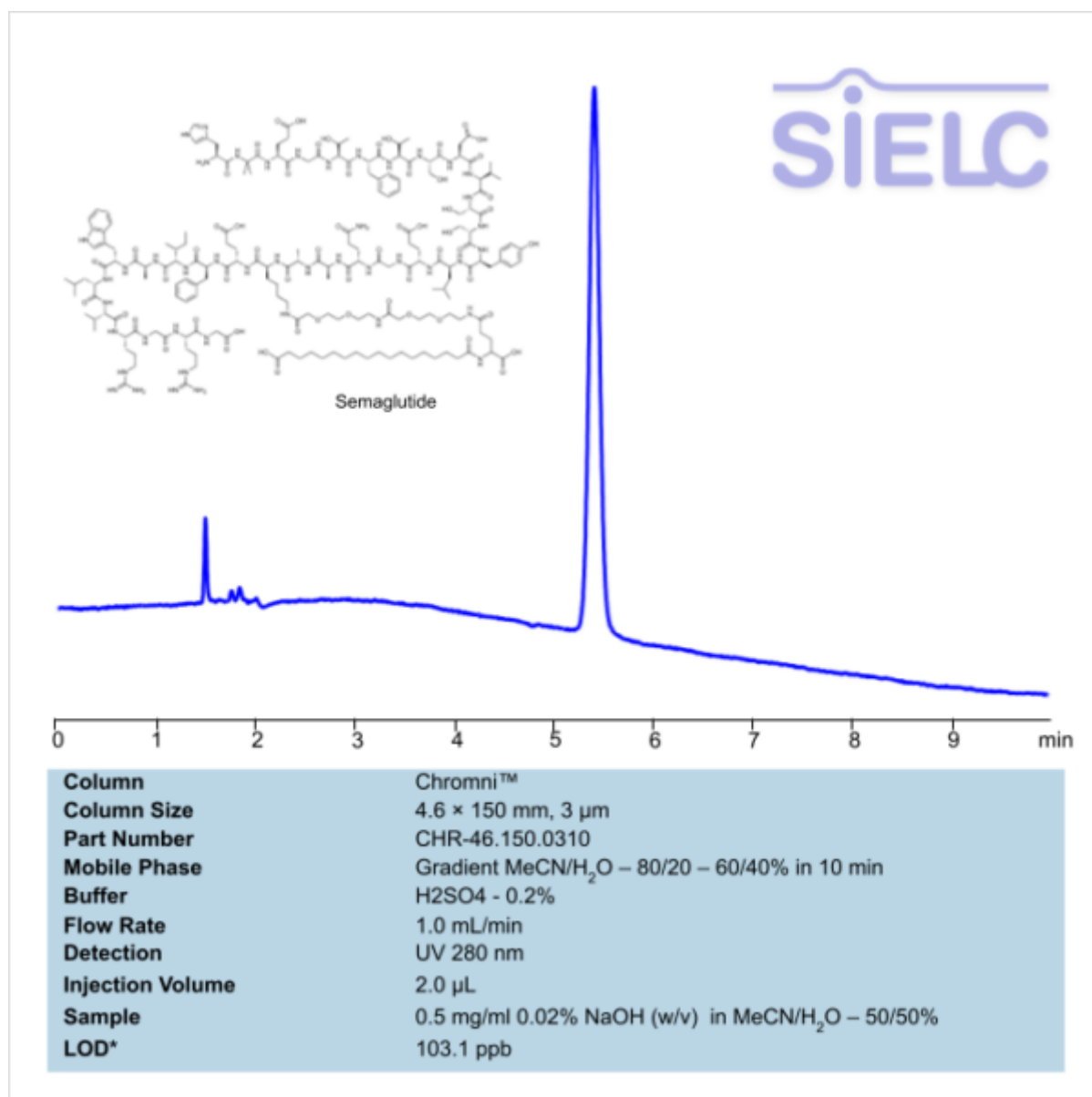


HPLC Method for Analysis of Semaglutide on Chromni Column

<https://sielc.com/hplc-method-for-analysis-of-semaglutide-chromni>

Chromatogram



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Semaglutide .

Semaglutide is a GLP-1 receptor agonist with the chemical formula C 187 H 291 N 45 O 59 . It is used for managing type 2 diabetes and obesity. It mimics the effects of the natural hormone GLP-1, promoting insulin secretion, reducing glucagon levels, slowing gastric emptying, and suppressing appetite. These mechanisms help control blood sugar levels and support weight loss.. You can find detailed UV spectra of Semaglutide and information about its various lambda maxima by visiting the following link.

Semaglutide can be retained and analyzed using the Chromni stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN). Detection is performed using UV.

Method Parameters

Mobile Phase

Gradient MeCN/H₂O

Buffer	H2SO4 – 0.2%
Flow Rate	1.0 mL/min
Detection	UV 280 nm
Limit Of Detection*	103.1 ppb
Class of Compounds	Peptide
Analyzing Compounds	Semaglutide

HPLC Column Used

Chromni, 4.6 x 150 mm, 3 µm, 100 Å, dual ended

[Order this column at hplc-shop.de →](#)