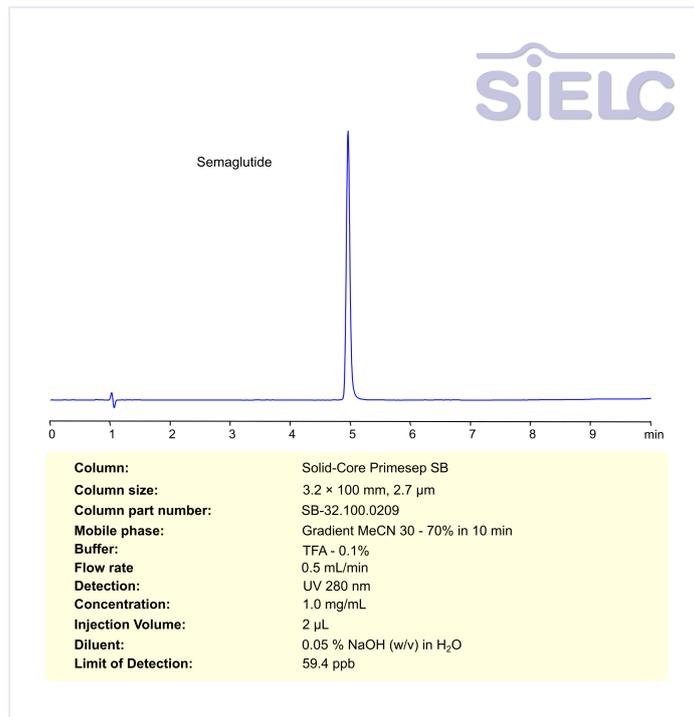


HPLC Method for Analysis of Semaglutide on Solid-Core Primesep SB Column



Semaglutide is a GLP-1 receptor agonist 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.

Semaglutide can be retained and analyzed using the Solid-Core Primesep SB stationary phase column. The analysis utilizes a gradient method with a simple mobile phase consisting of water, acetonitrile (MeCN), and TFA. Detection is performed using UV at 280 nm.

*LOD was determined for this combination of instrument, method, and analyte, and it can vary from one laboratory to another even when the same general type of analysis is being performed.

Method Parameters

Mobile Phase	Gradient MeCN30-70%, 10 min
Buffer	TFA – 0.1%
Flow Rate	0.5 mL/min
Detection	UV 280 nm
Limit of Detection	59.4 ppb

Quelle: <https://sielc.com/hplc-method-for-analysis-semaglutide-primesep-sb>