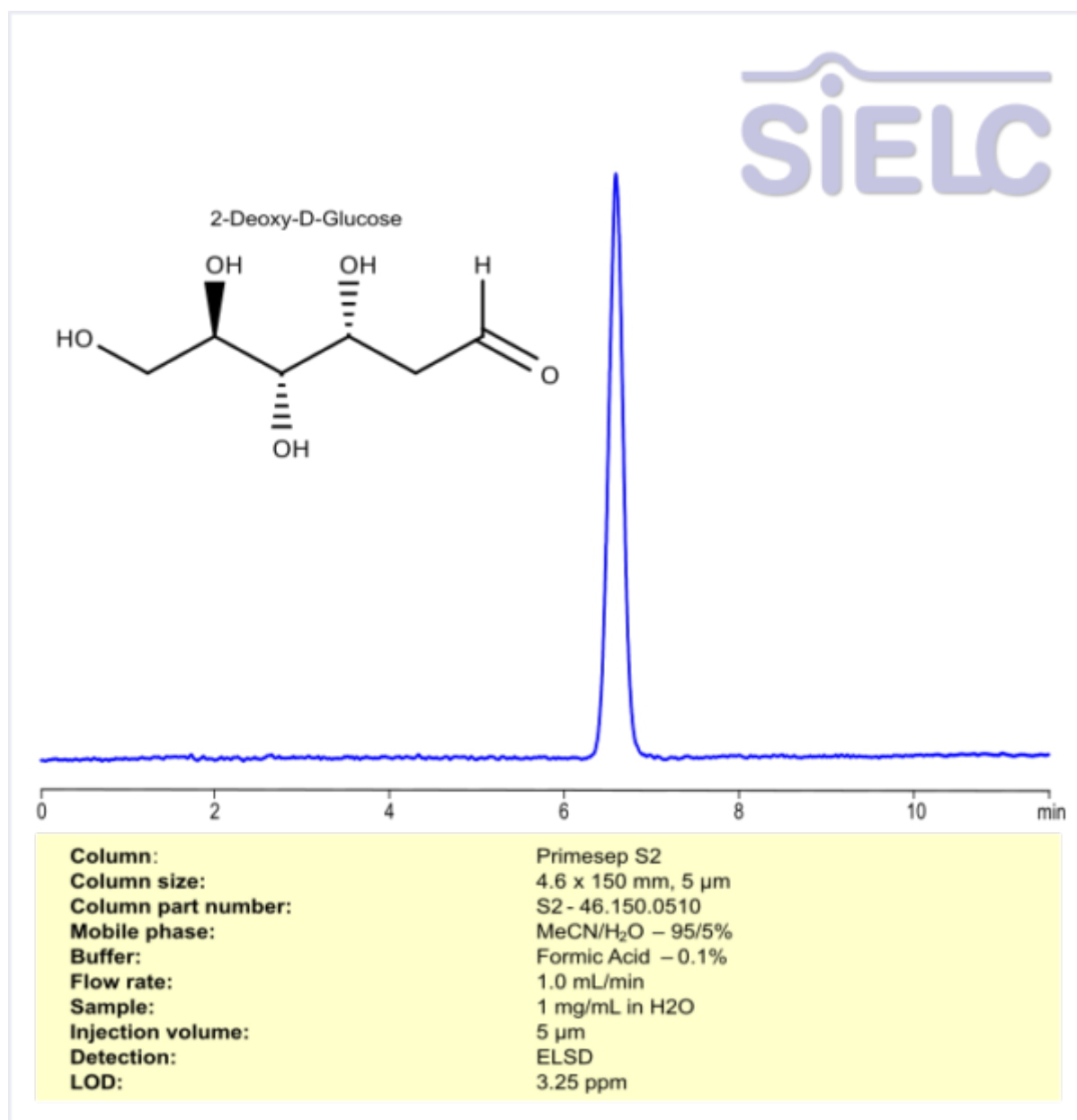


HPLC Method for Analysis of 2-Deoxy-D-Glucose on Primesep S2 Column

<https://sielc.com/hplc-method-for-analysis-of-2-deoxy-d-glucose>

Chromatogram



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of 2-Deoxy-D-Glucose · 2-Deoxy-D-Glucose is an organic compound with the molecular formula C₆H₁₂O₅. · Properties: Appearance: Typically a white to cream-colored powder or crystalline powder. · Molecular weight: ~164.16 g/mol · Solubility: Soluble in water.

Uses: Being investigated as an anti-cancer agent, an antiviral treatment, and an anticonvulsant, and it has shown promise in reducing oxygen dependence in COVID-19 patients.

2-Deoxy-D-Glucose can be retained and analyzed using the Primesep S2 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water, acetonitrile (MeCN), and formic acid. Detection is performed using ELSD.

Method Parameters

Mobile Phase	MeCN – 95%
Buffer	Formic Acid – 0.1%
Flow Rate	1.0 ml/min
Detection	ELSD
LOD	3.25 ppm
Class of Compounds	Deoxy Sugar
Analyzing Compounds	2-Deoxy-D-Glucose

HPLC Column Used

Primesep S2, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

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