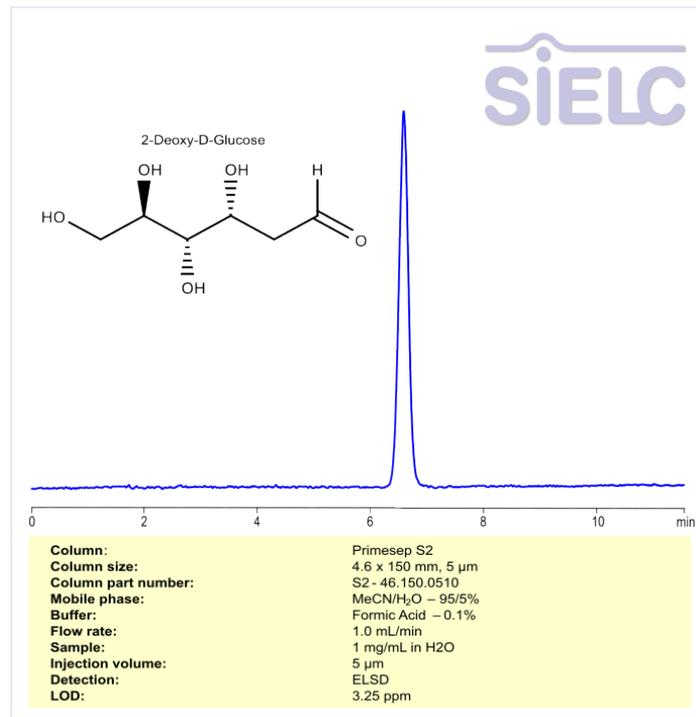


## HPLC Method for Analysis of 2-Deoxy-D-Glucose on Primesep S2 Column



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 C<sub>6</sub>H<sub>12</sub>O<sub>5</sub>.

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

<b>Column</b>	Primesep S2, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
<b>Mobile Phase</b>	MeCN – 95%
<b>Buffer</b>	Formic Acid – 0.1%
<b>Flow Rate</b>	1.0 mL/min
<b>Detection</b>	ELSD
<b>Limit of Detection</b>	3.25 ppm

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