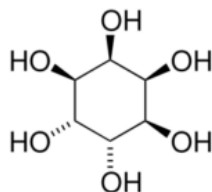


HPLC Method for Determination of Myo-Inositol on Primesep S2 Column

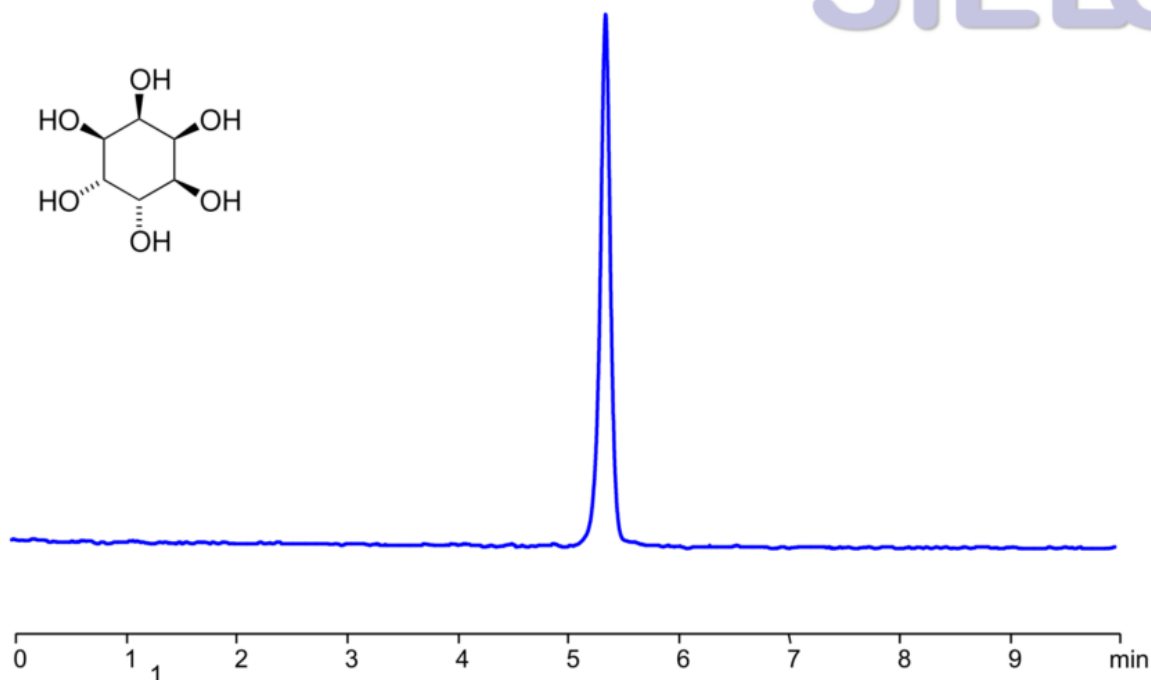
<https://sielc.com/hplc-method-inositol>

Chromatogram

Myo-Inositol



SiELC



Column:	Primesep S2
Column size:	4.6 × 150 mm, 5 µm
Column part number:	S2-46.150.0510
Mobile phase:	MeCN/H ₂ O - 75/25%
Buffer:	None
Flow rate	1.0 mL/min
Column temperature:	25 °C
Detection:	ELSD, the nebulizer and evaporator temperatures 50°C, with a gas flow rate of 1.6 Standard Liters per Minute (SLM)
Concentration:	0.1 mg/mL
Injection Volume:	10 µL
Diluent:	MeCN/H ₂ O - 80/20%
Limit of Detection:	Inositol -1 ppm

Description

· Separation type: Liquid Chromatography HILIC · HPLC Method for Analyzing Myo-Inositol on Primesep S2 Column by SiELC Technologies

Used in the treatment of polycystic ovary syndrome (PCOS), neurological conditions, and as a dietary supplement for metabolic and reproductive health.

The myo-inositol can be effectively retained using a mixed-mode Primesep S2 column with a mobile phase consisting of 80% acetonitrile (MeCN) , without the need for a buffer. This method offers high resolution and excellent peak symmetry , enabling accurate quantification of all three analytes. Detection is performed using ELSD (Evaporative Light Scattering Detection) , which provides reliable sensitivity for non-UV-active or weakly absorbing compounds.

Method Parameters

Mobile Phase	MeCN 75%
Buffer	none
Flow Rate	1.0 ml/min
Detection	ELSD, the nebulizer and evaporator temperatures 50°C,with a gas flow rate of 1.6 Standard Liters per Minute (SLM)
Class of Compounds	Sugar
Analyzing Compounds	Myo-Inositol

HPLC Column Used

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

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