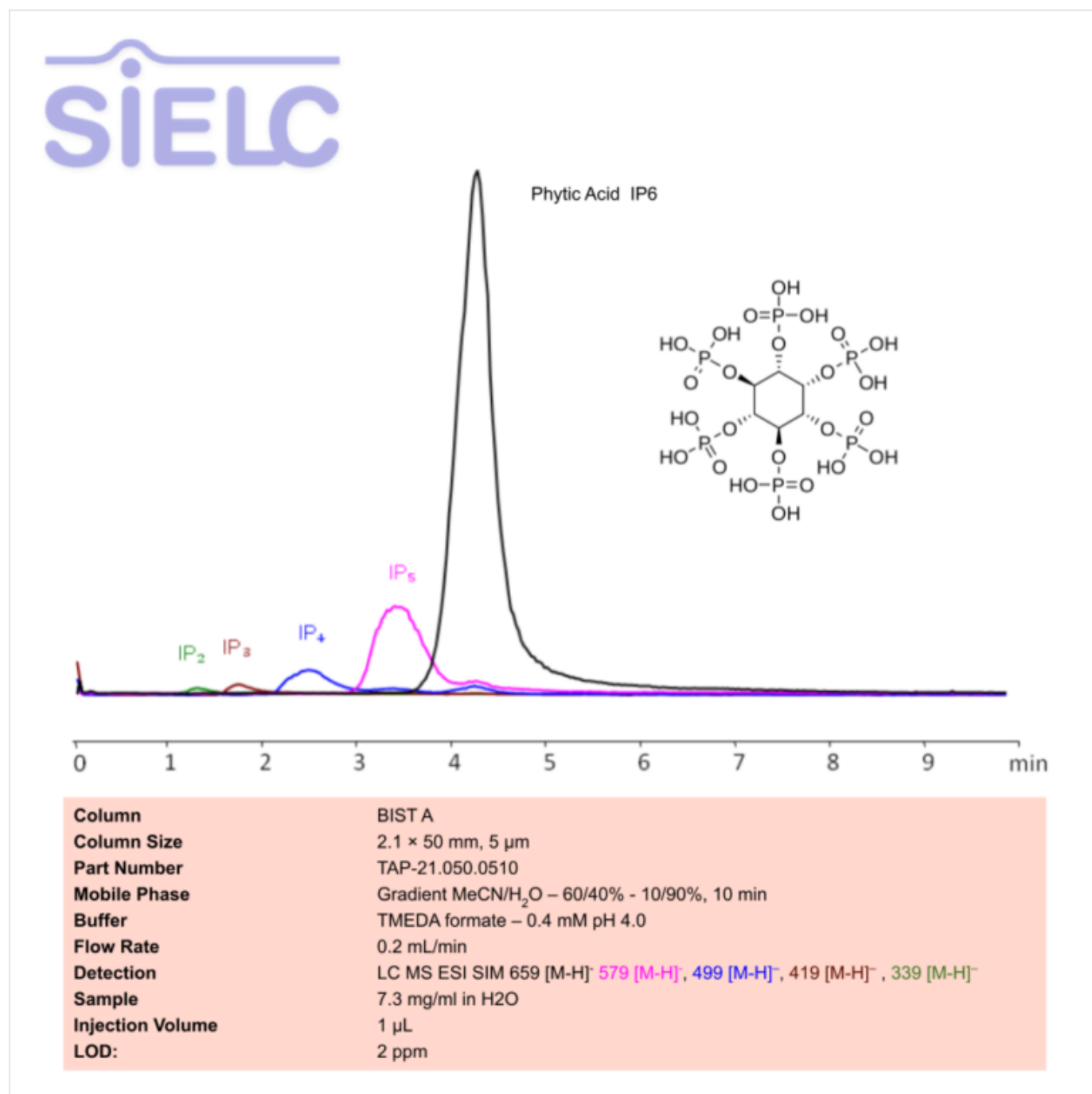


HPLC MS Method for Analysis of Phytic Acid on BIST A Column

<https://sielc.com/hplc-method-for-analysis-of-phytic-acid>

Chromatogram



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Phytic Acid

Phytic Acid, also known as inositol hexaphosphate, inositol hexakisphosphate (IP₆), AND inositol polyphosphate is a dihydrogenphosphate ester of inositol with the molecular formula C₆H₁₈O₂₄P₆. It is also known as a phosphorus-storage compounds primarily found in nuts, seeds, and whole grains. It serves as a way for plants to store phosphorus. When broken down in the body, it binds to chelates.

Phytic Acid can be retained and analyzed using the BIST A stationary phase column. The analysis utilizes a gradient method with a simple mobile phase consisting of water and acetonitrile (MeCN). Detection is performed using UV.

Method Parameters

Mobile Phase	Gradient MeCN – 60/40% – 10/90%, 10 min
Buffer	TMEDA formate
Flow Rate	0.2 mL/min
Detection	LC MS ESI SIM
LOD*UV	2 ppm
Class of Compounds	Ester
Analyzing Compounds	Phytic Acid

HPLC Column Used

BIST A, 2.1 x 50 mm, 5 µm, 100 A, dual ended

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