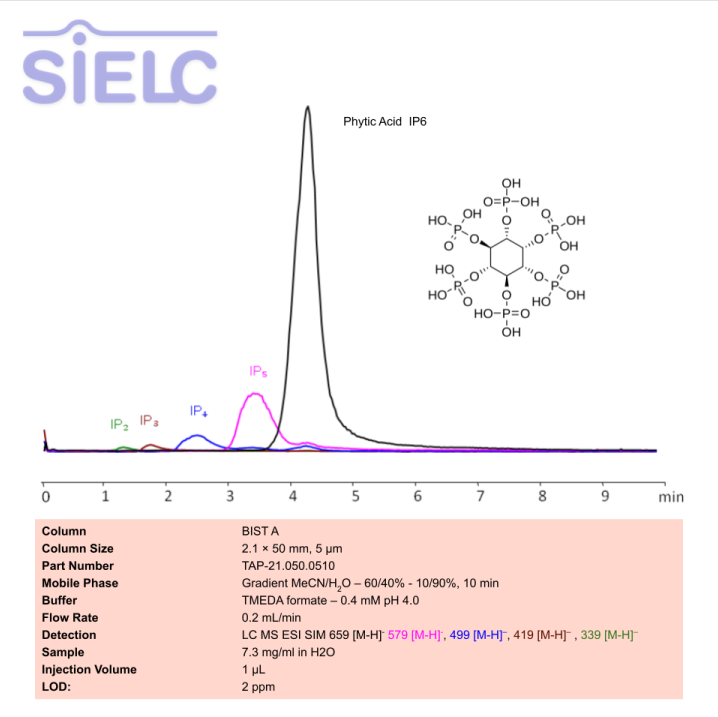
HPLC MS Method for Analysis of Phytic Acid on BIST A Column



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

Column	BIST A, 2.1 x 50 mm, 5 µm, 100 Å, dual ended
Mobile Phase	Gradient MeCN – 60/40% – 10/90%, 10 min
Buffer	TMEDA formate
Flow Rate	0.2 mL/min
Detection	LC MS ESI SIM

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