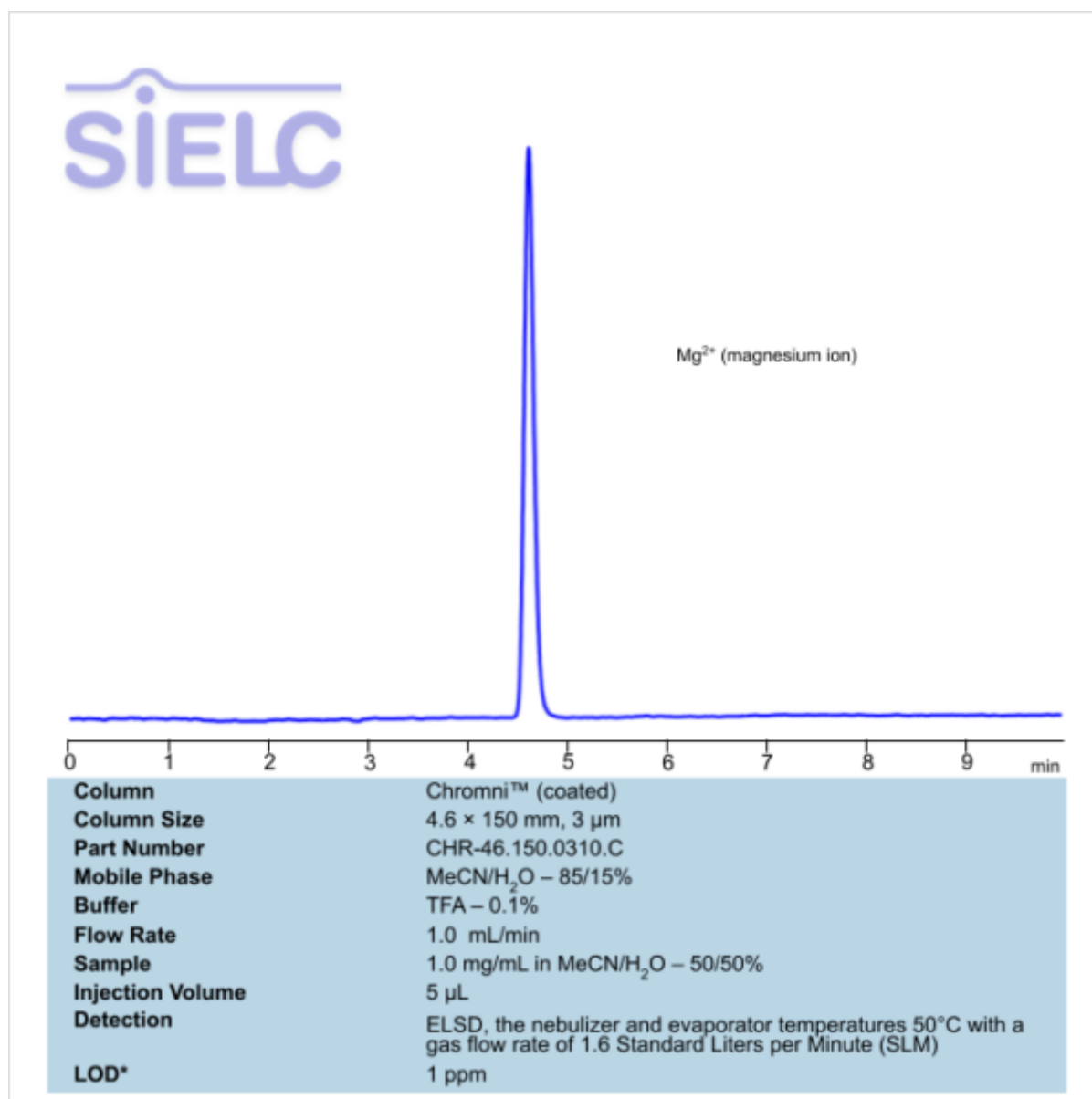


HPLC Method for Analysis of Magnesium Ion on Chromni Column

<https://sielc.com/hplc-method-for-analysis-of-magnesium-ion>

Chromatogram



Description

· High Performance Liquid Chromatography (HPLC) Method for Analysis of Magnesium .

Magnesium is an element with the symbol Mg . Magnesium ion has the chemical formula of Mg ²⁺ . It is a shiny grey metal with a high chemical reactivity, but low density and melting point. While magnesium is abundant in the earth's crust, it is produced in the cosmos in large, aging stars. It is primarily used as a structural metal in a large variety of contexts from aircrafts to light sources and chemical reagents.

Magnesium can be retained and analyzed using the Chromni stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) and TFA. Detection is performed using ELSD.

Method Parameters

Mobile Phase

MeCN/H₂O – 85/15%

Buffer	TFA – 0.1%
Flow Rate	1.0 ml/min
Detection	ELSD
Limit Of Detection*	1 ppm
Class of Compounds	Metal
Analyzing Compounds	Magnesium

HPLC Column Used

Chromni, 4.6 x 150 mm, 3 µm, 100 Å, surface coated

[Order this column at hplc-shop.de →](#)