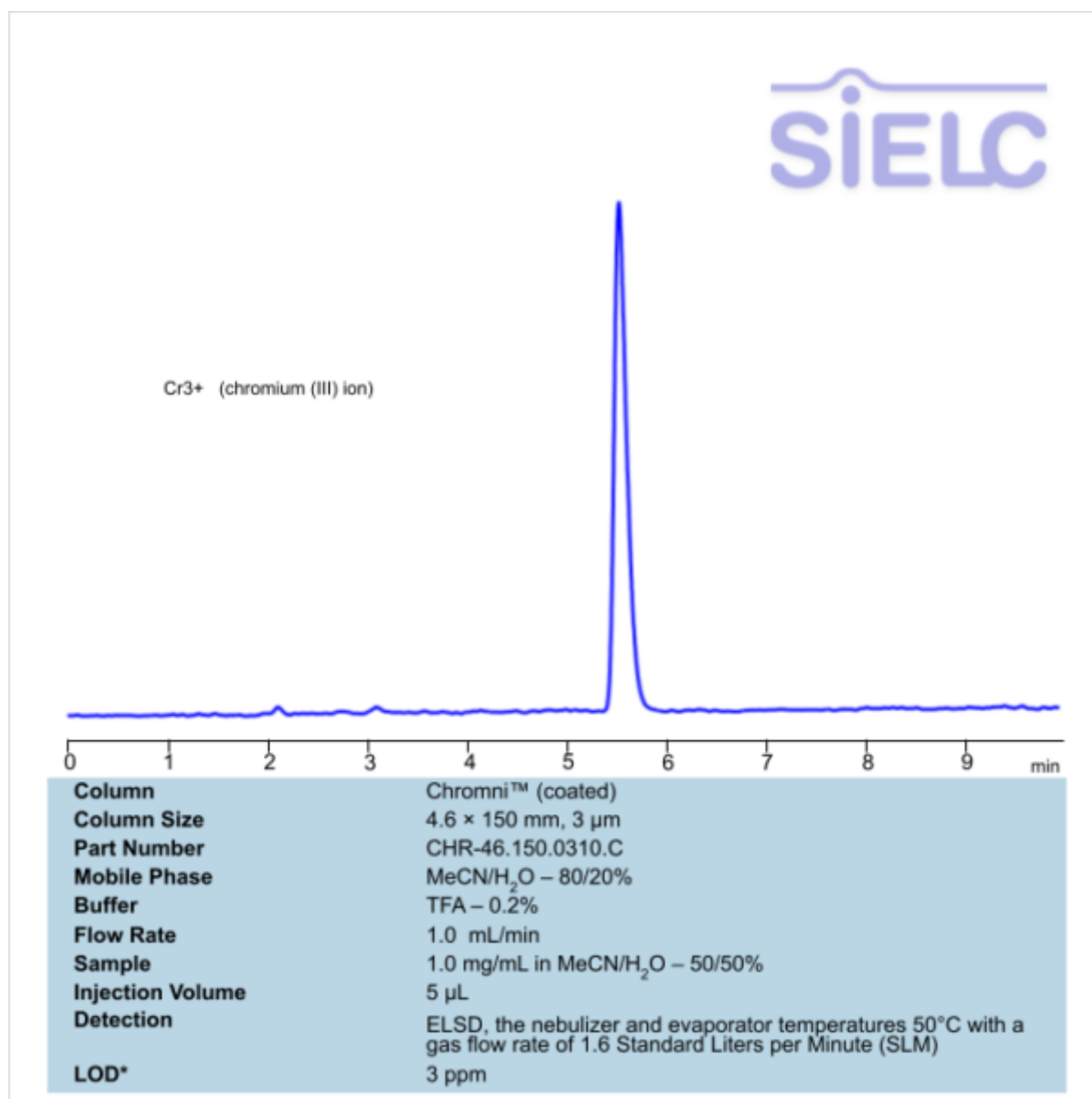


HPLC Method for Analysis of Chromium (III) Ion on Chromni Column

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

Chromatogram



Description

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

Chromium(III) is a nutrient with the chemical formula Cr^{3+} . It is believed to be essential for human metabolism of insulin, sugar, and lipids. Though, the notion is currently contested. It can be found naturally in rocks, soil, plants, as well as various animal products.

Chromium(III) 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 – 80/10%

Buffer	TFA – 0.2%
Flow Rate	1.0 ml/min
Detection	ELSD
Limit Of Detection*	3 ppm
Class of Compounds	Nutrient
Analyzing Compounds	Chromium(III)

HPLC Column Used

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

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