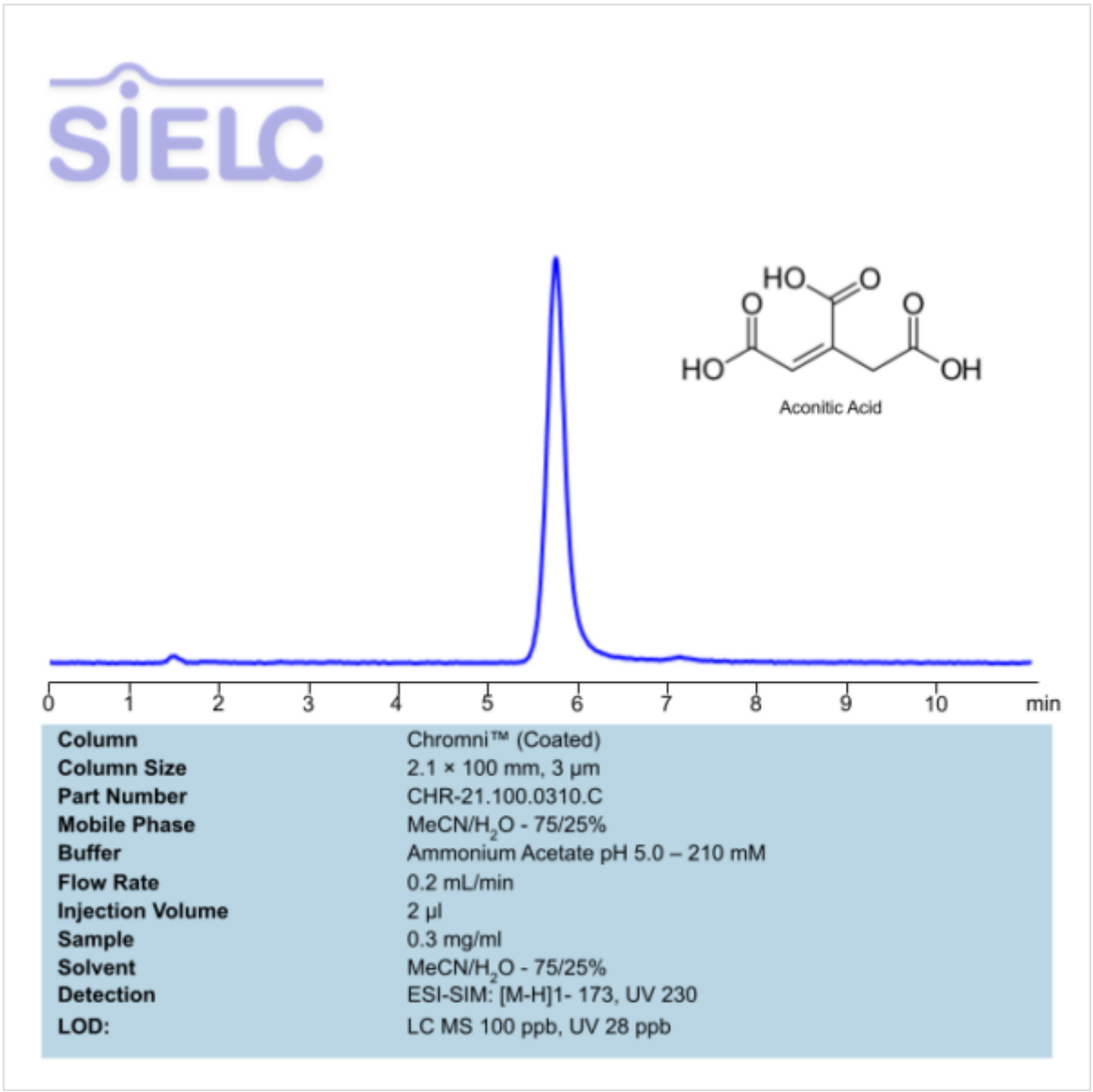
HPLC Method for Analysis of Aconitic Acid on Chromni Column

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

Chromatogram



Column	Chromni™ (Coated)
Column Size	2.1 × 100 mm, 3 µm
Part Number	CHR-21.100.0310.C
Mobile Phase	MeCN/H_2O - 75/25%
Buffer	Ammonium Acetate pH 5.0 – 210 mM
Flow Rate	0.2 mL/min
Injection Volume	2 µl
Sample	0.3 mg/ml
Solvent	MeCN/H_2O - 75/25%
Detection	ESI-SIM: [M-H]1- 173, UV 230
LOD:	LC MS 100 ppb, UV 28 ppb

Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of Aconitic acid , trans-Aconitic acid .

Aconitic acid is an organic compound with the chemical formula C 6 H 6 O 6 . It is primarily used to create nutty flavors in foods. It is also a common intermediate in the Kreb's cycle when Citrate is changed into D-isocitrate. You can find detailed UV spectra of Aconitic acid , trans-Aconitic acid and information about its various lambda maxima by visiting the following link.

Aconitic acid , trans-Aconitic acid 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) with a [buffer] buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN – 75/25%

Buffer	Ammonium acetate pH 5.0 – 210 mM
Flow Rate	0.2 ml/min
Detection	ESI-SIM: [M-H]1-173, UV 230
Limit Of Detection*	LC MS 100 ppb, UV 28 ppb
Class of Compounds	Acid, Carboxylic acids, Tricarboxylic acids
Analyzing Compounds	Aconitic acid,trans-Aconitic acid

HPLC Column Used

Chromni, 2.1 x 100 mm, 3 µm, 100 A, surface coated

Order this column at hplc-shop.de →