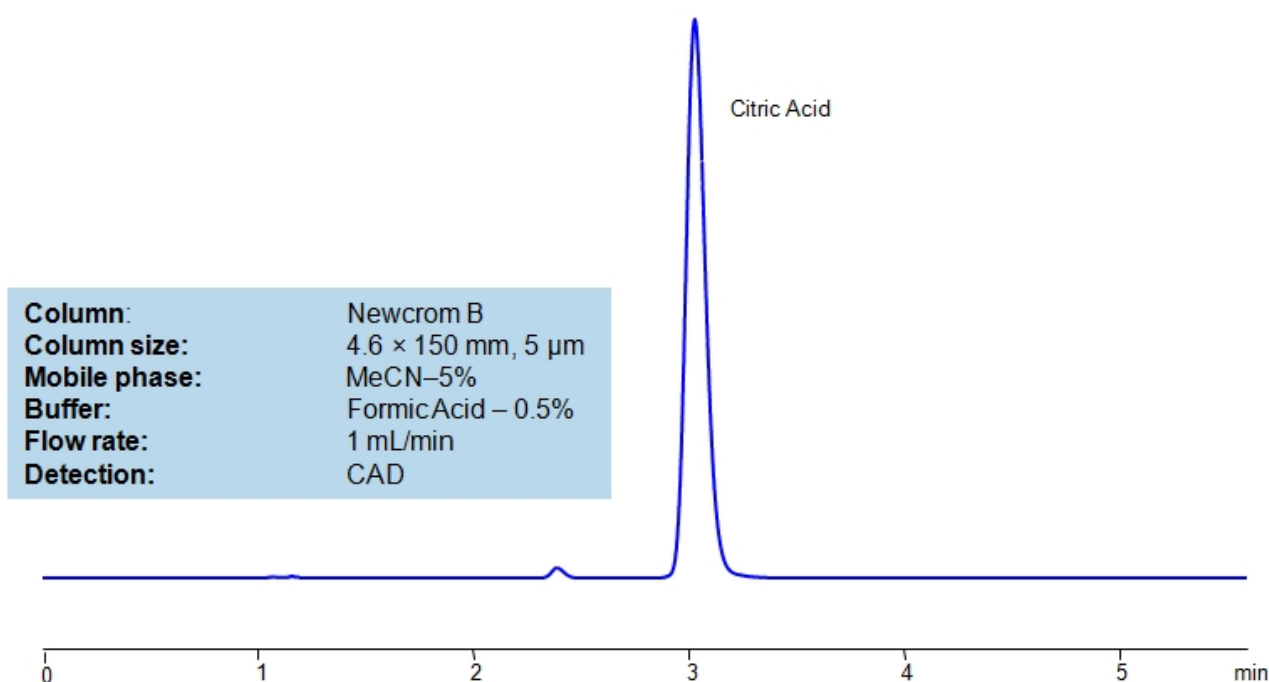


HPLC Determination of Citric Acid on Newcrom B Column

<https://sielc.com/hplc-determination-of-citric-acid>

Chromatogram



HPLC Determination of Citric Acid on Newcrom B Column

Description

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

Citric Acid is a naturally occurring organic acid found in citrus fruits; it is also an intermediate in the citric acid cycle of aerobic organisms. It is used industrially as an acidity regulator, flavoring, detergent, and more than 2 million tons are produced annually. Its chemical formula is $C_6H_8O_7$.

Citric Acid can be retained and analyzed using the Newcrom B stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a formic acid buffer. Detection is performed using CAD.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 5/95%
Buffer	Formic Acid – 0.5%
Flow Rate	1.0 ml/min
Detection	CAD (Corona) MS- compatible mobile phase
Class of Compounds	Acid, Hydrophilic, Ionizable

HPLC Column Used

Newcrom B, 4.6 x 150 mm, 5 µm, 100 Å, dual ended[Order this column at hplc-shop.de →](https://www.hplc-shop.de)