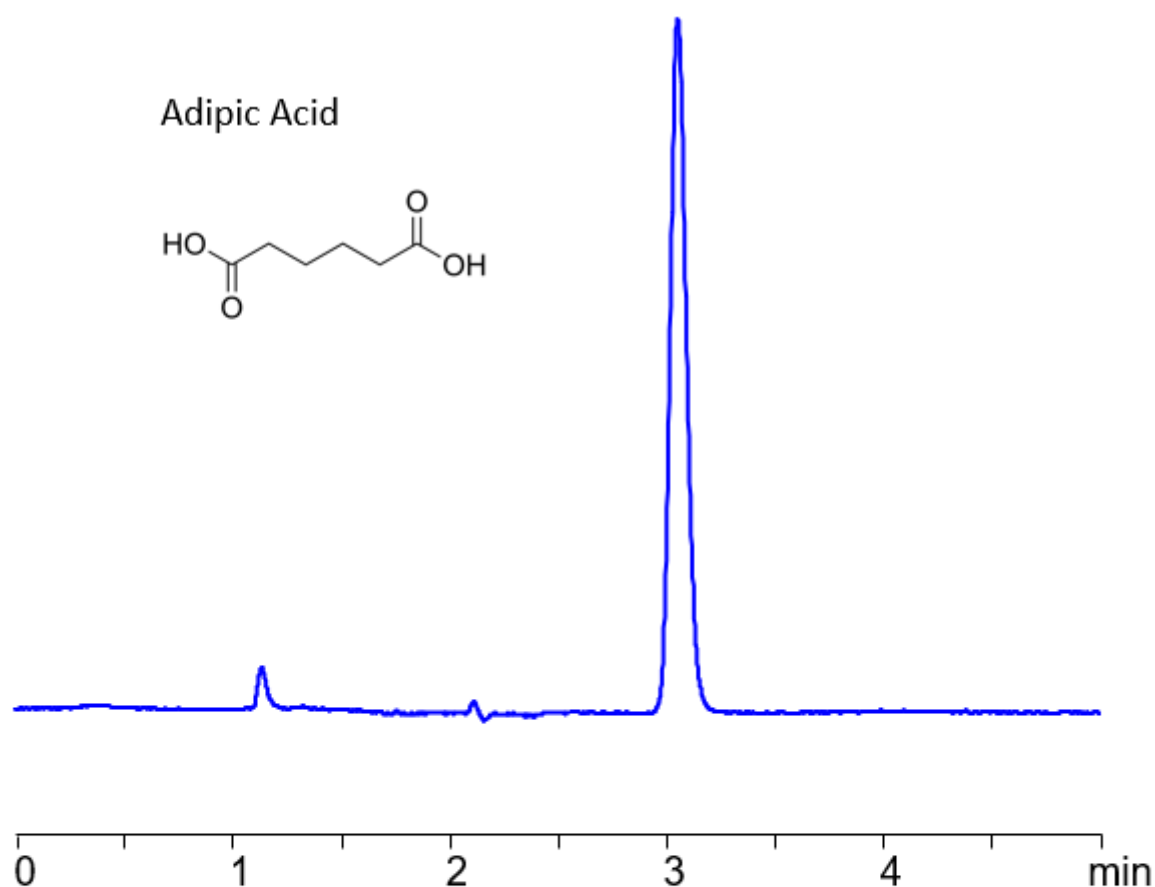


HPLC Method for Analysis of Adipic Acid on Newcrom B Column

<https://sielc.com/hplc-method-for-analysis-of-edta-and-maleic-acid-on-newcrom-b-column-2>

Chromatogram



Column:	Newcrom B
Size:	4.6 x 150 mm, 3 µm, 100 Å
Column part number:	NB-46.150.0310
Mobile phase:	MeCN/H ₂ O – 5/95%
Buffer:	H ₂ SO ₄ – 0.02%
Flow:	1.0 mL/min
Detection:	UV 200 nm

Description

Adipic acid, also known as hexanedioic acid, is a key precursor to nylon, and more than 2.5 billion kilograms are produced every year. In medicinal uses, it has been incorporated into controlled-release formulation as well as the polymeric coating of hydrophilic monolithic systems. It has the chemical formula C₆H₁₀O₄.

Adipic Acid can be retained and analyzed on a mixed-mode Newcrom B column with a mobile phase consisting of water, Acetonitrile (MeCN), and Sulfuric acid (H₂SO₄). This analytical method can be UV detected at 200 nm with high resolution and peak symmetry.

Method Parameters

Mobile Phase	MeCN/H ₂ O -5/95%
Buffer	H ₂ SO ₄ – 0.02%
Flow Rate	1.0 ml/min
Detection	UV 200 nm
Class of Compounds	Acid, Hydrophilic
Analyzing Compounds	Adipic Acid

HPLC Column Used

Newcrom B, 4.6 x 150 mm, 3 µm, 100 Å, dual ended

[Order this column at hplc-shop.de →](https://www.hplc-shop.de)