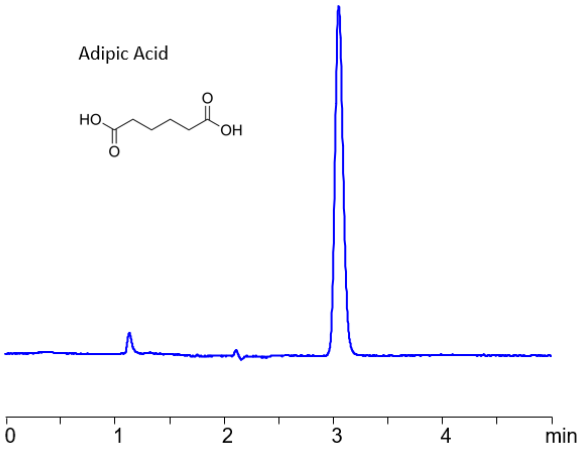
HPLC Method for Analysis of Adipic Acid on Newcrom B Column



Column:	Newcrom B
Size:	4.6 x 150 mm, 3 µm, 100 A
Column part number:	NB-46.150.0310
Mobile phase:	MeCN/H_2O – 5/95%
Buffer:	H_2SO_4 – 0.02%
Flow:	1.0 mL/min
Detection:	UV 200 nm

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

Column	Newcrom B, 4.6 x 150 mm, 3 µm, 100 Å, dual ended
Mobile Phase	MeCN/H2O -5/95%
Buffer	H2SO4 – 0.02%
Flow Rate	1.0 mL/min
Detection	UV 200 nm

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