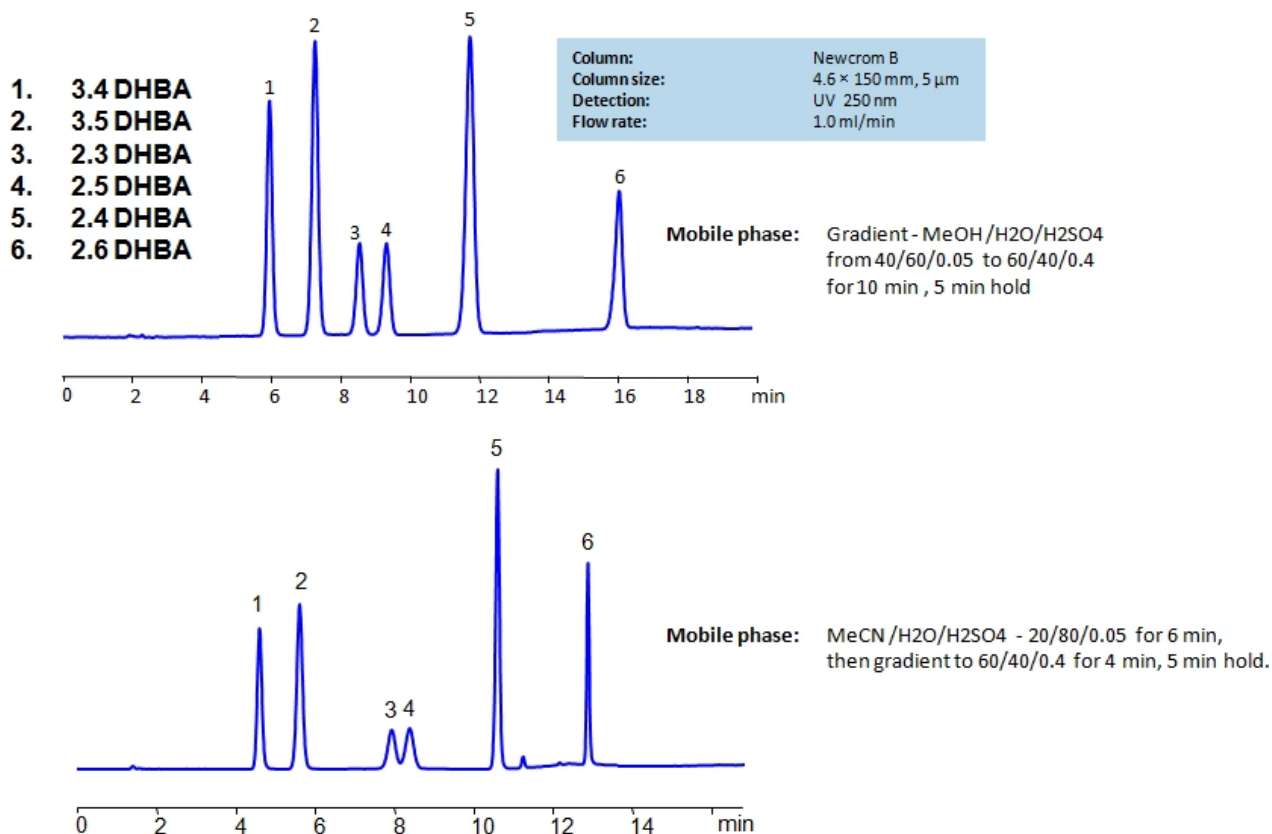


HPLC Separation of Dihydroxybenzoic Acids on Newcrom B Column

<https://sielc.com/hplc-separation-of-dihydroxybenzoic-acids-on-newcrom-b-column>

Chromatogram



Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of 2,3-Dihydroxybenzoic Acid , 2,4-Dihydroxybenzoic Acid , 2,5-Dihydroxybenzoic Acid , 3,4-Dihydroxybenzoic Acid , 3,5-Dihydroxybenzoic Acid , 2,6-Dihydroxybenzoic acid .

Dihydroxybenzoic acids are aromatic compounds consisting of a phenolic ring and a carboxylic acid. They all have the same chemical formula C₇H₆O₄ .

The six main compounds are structurally similar and are difficult to separate in reverse-phase HPLC. They can be separated by using a mixed-mode Newcrom B column with the mobile phase having either methanol (MeOH) or acetonitrile (ACN) as an organic modifier having different retention characteristics. Using the gradient of organic modifier, water and sulfuric acid (H₂SO₄) as buffer, dihydroxybenzoic acids can be separated and UV detected at 250nm.

You can find detailed UV spectra of 2,3-Dihydroxybenzoic Acid , 2,4-Dihydroxybenzoic Acid , 2,5-Dihydroxybenzoic Acid , 3,4-Dihydroxybenzoic Acid , 3,5-Dihydroxybenzoic Acid , 2,6-Dihydroxybenzoic acid and information about its various lambda maxima by visiting the following links for 3,4 DHBA , 3,5 DHBA , 2,4 DHBA , and 2,5 DHBA.

Method Parameters

Mobile Phase	MeCN
Buffer	H ₂ SO ₄

Flow Rate	1.0 ml/min
Detection	UV, 250 nm
Class of Compounds	Drug, Acid, Hydrophilic, Ionizable, Vitamin, Supplements
Analyzing Compounds	2,3-Dihydroxybenzoic Acid,2,4-Dihydroxybenzoic Acid,2,5-Dihydroxybenzoic Acid,3,4-Dihydroxybenzoic Acid,3,5-Dihydroxybenzoic Acid,2,6-Dihydroxybenzoic acid

HPLC Column Used

Newcrom B, 4.6 x 150 mm, 5 µm, 100 A, dual ended

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