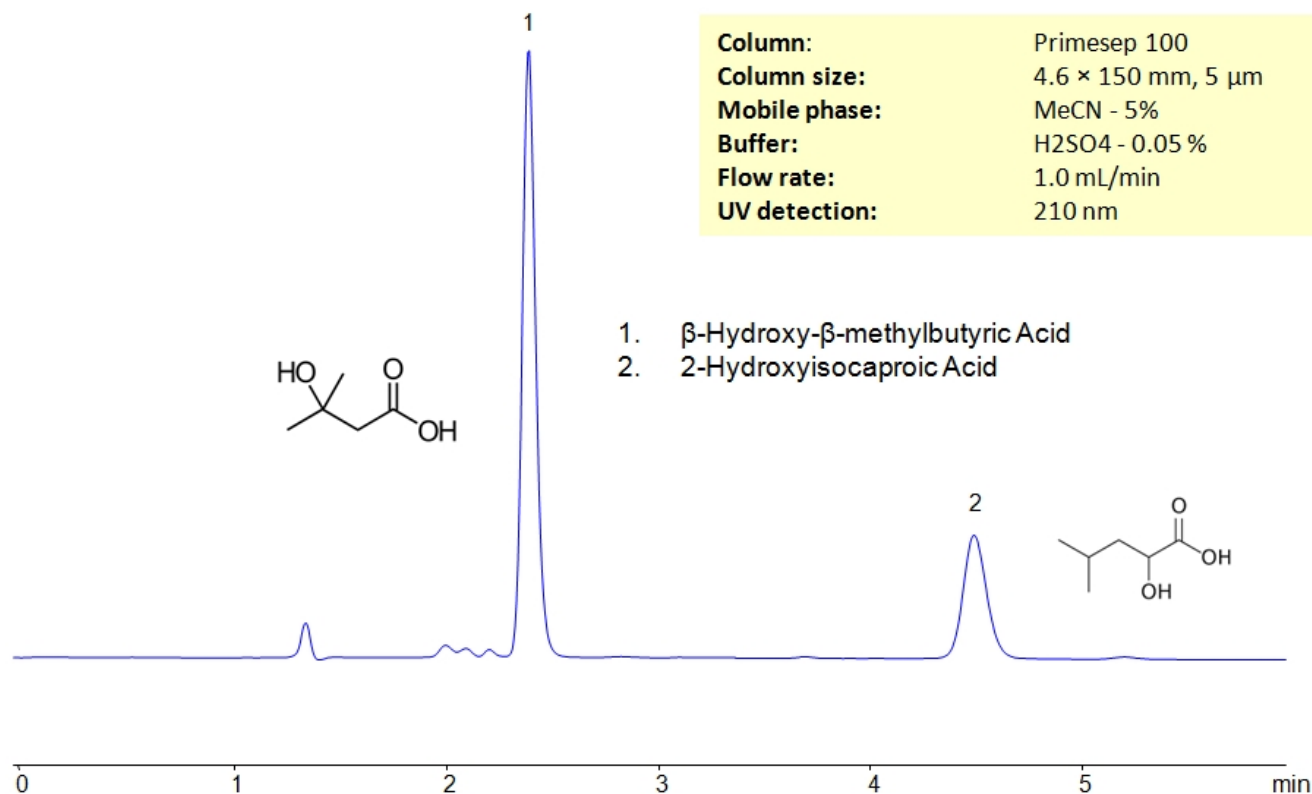


HPLC Separation of β -Hydroxy- β -methylbutyric Acid and 2-Hydroxyisocaproic Acid on Primesep 100 Column

<https://sielc.com/hplc-separation-of-%25ce%25b2%25e2%2580%2591hydroxy-%25ce%25b2-methylbutyric-acid-and-2-hydroxyisocaproic-acid>

Chromatogram



HPLC Separation of β -Hydroxy- β -methylbutyric Acid and 2-Hydroxyisocaproic Acid_1182

Description

High Performance Liquid Chromatography (HPLC) Method for Analysis of β -Hydroxy- β -methylbutyric Acid (HMB), 2-Hydroxyisocaproic Acid (HICA)

Both β -hydroxy- β -methylbutyric acid (HMB) and 2-hydroxyisocaproic acid (HICA) are metabolites of the essential dietary branched chain amino acid leucine.

β -Hydroxy- β -methylbutyric Acid (HMB), 2-Hydroxyisocaproic Acid (HICA) can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes an isocratic method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a Sulfuric Acid buffer. Detection is performed using UV.

Method Parameters

Mobile Phase	MeCN – 5%
Buffer	H ₂ SO ₄ – 0.05 %
Flow Rate	1.0 ml/min

Detection	UV, 210 nm
Class of Compounds	Acid, Hydrophilic, Ionizable, Normal human metabolite, Dietary supplement, Essential amino acid, Branched-chain amino acid (BCAA)
Analyzing Compounds	β-Hydroxy-β-methylbutyric Acid (HMB), 2-Hydroxyisocaproic Acid (HICA)

HPLC Column Used

Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended

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