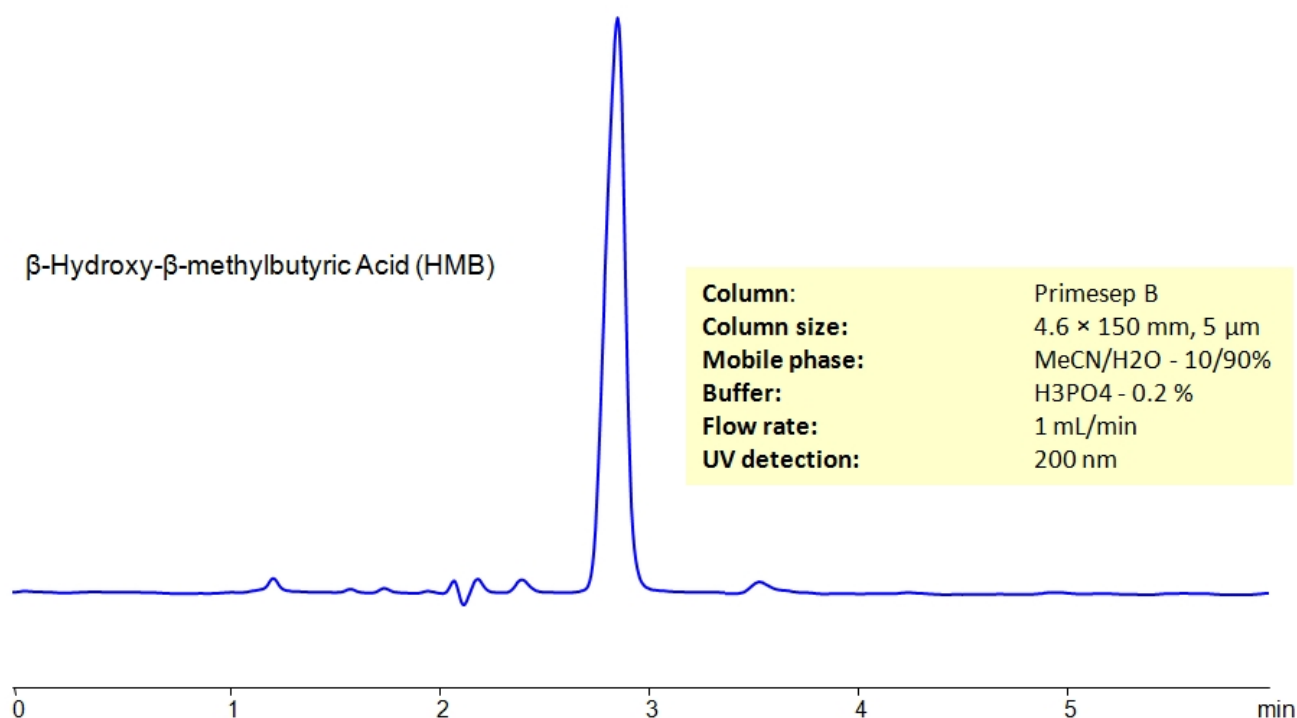


HPLC Determination of β -Hydroxy- β -methylbutyric Acid on Primesep B Column

<https://sielc.com/hplc-determination-of-b-hydroxy-b-methylbutyric-acid>

Chromatogram



HPLC Determination of β -Hydroxy- β -methylbutyric Acid

Description

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

Beta-Hydroxy beta-Methylbutyric acid (HMB) is used as an over-the-counter dietary supplement, which has been shown to increase lean body mass and muscle size. Another use for it is in to promote wound healing and to prevent the loss of muscle in individuals suffering from age-related muscle loss. HMB can be retained on a Primesep B mixed-mode column in in 3 minutes using low Acetonitrile (ACN) concentration in the mobile phase (10%) with 0.2% Phosphoric acid buffer. UV detection 200nm.

Method Parameters

Mobile Phase	MeCN/H ₂ O – 10/90%
Buffer	H ₃ PO ₄ – 0.2 %
Flow Rate	1.0 ml/min
Detection	UV, 200 nm
Class of Compounds	Acid, Hydrophilic, Ionizable, Normal human metabolite, Dietary supplement
Analyzing Compounds	β -Hydroxy- β -methylbutyric Acid (HMB)

HPLC Column Used

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

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