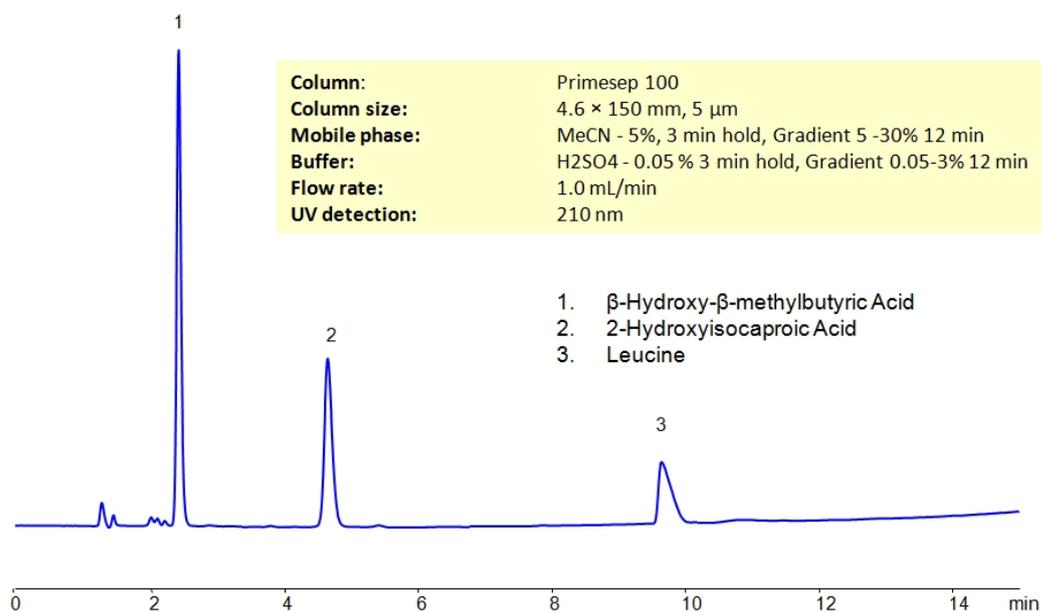


HPLC Separation of β -Hydroxy- β -methylbutyric Acid, 2-Hydroxyisocaproic Acid and Leucine on Primesep 100 Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of β -Hydroxy- β -methylbutyric Acid (HMB) , D-Leucine , Leucine , 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) , D-Leucine , Leucine , 2-Hydroxyisocaproic Acid (HICA) can be retained and analyzed using the Primesep 100 stationary phase column. The analysis utilizes a gradient method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a sulfuric acid buffer. Detection is performed using UV.

Method Parameters

Column	Primesep 100, 4.6 x 150 mm, 5 μ m, 100 Å, dual ended
Mobile Phase	MeCN – 5%, 3 min hold, Gradient MeCN5-30% 12 min
Buffer	H ₂ SO ₄ – 0.05% 3 min hold, GradientH ₂ SO ₄ 0.05-3% 12 min
Flow Rate	1.0 mL/min
Detection	UV, 210 nm

Quelle: <https://sielc.com/hplc-separation-of-B-Hydroxy-B-methylbutyric-acid-and-leucine>