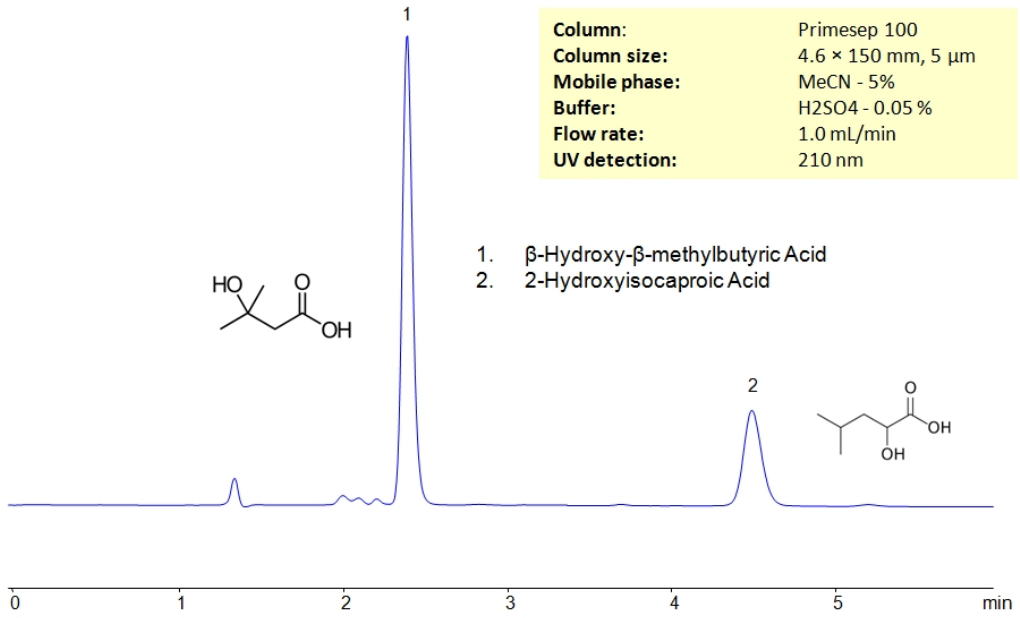
HPLC Separation of β■Hydroxy-β-methylbutyric Acid and 2-Hydroxyisocaproic Acid on Primesep 100 Colimn



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

Column	Primesep 100, 4.6 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 5%
Buffer	H2SO4 – 0.05%
Flow Rate	1.0 mL/min
Detection	UV, 210 nm

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