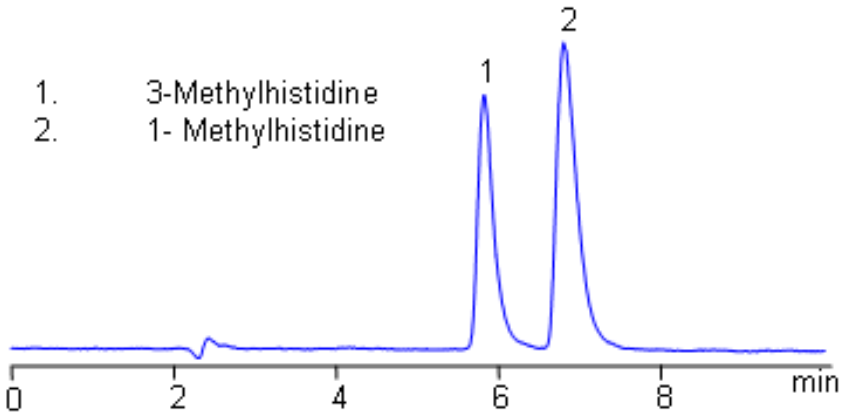
HPLC Separation of 1-Methylhistidine and 3-Methylhistidine on Primesep 200

Column: **Primesep 200**
Mobile phase: MeCN 20% with 20 mM AmFm pH 3.0
Size: 4.6 x 150 mm
Flow: 1.0 mL/min
Detection: ELSD



Application Notes: Methylhistidines are polar amino acids with very similar structures. Methylhistidines are methylated derivative of histidine found in actin. N-methylhistidine is released into urine after the breakdown of actin and myosin. Urinary output of N-methylhistidine is a reliable index of the rate of myofibrillar protein breakdown in musculature. The method for separation of 1-methylhistidine and 3-methylhistidine on Primesep 200 column was developed with LC/MS compatible conditions. This method can be used for quantitation of methylhystidines in urine and other biofluids.

Application Columns: Primesep 200 Application compounds: 1-Methylhistidine, 3-Methylhistidine Detection technique: UV, LC/MS, ELSD/CAD

Method Parameters

Column	Primesep 200, 4.6×150 mm, 5 µm, 100 Å
Mobile Phase	MeCN/H2O – 20/80%
Buffer	AmFm pH 3.0- 20 mM
Flow Rate	1.0 mL/min
Detection	ELSD

Quelle: https://sielc.com/Application-HPLC-Separation-of-1-Methylhistidine-and-3-Methylhistidine-on-Primesep-200