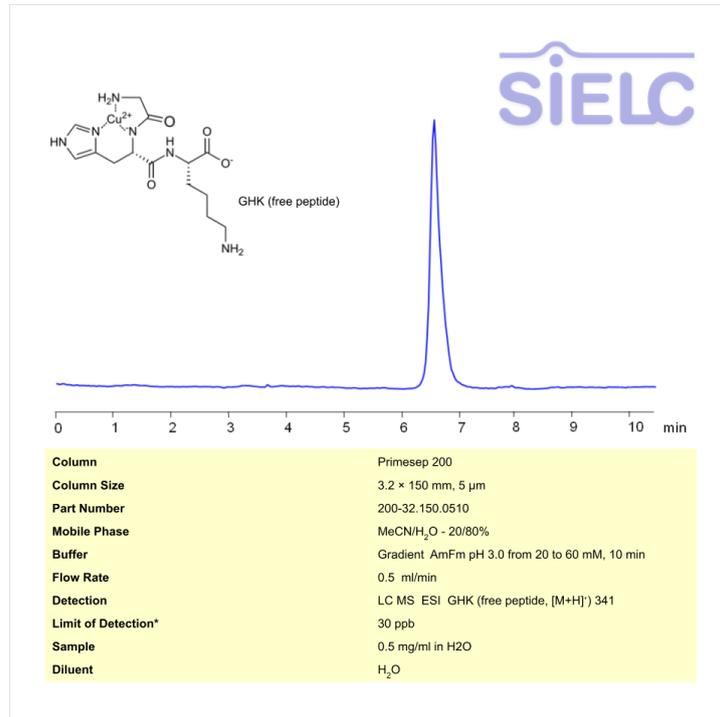


HPLC MS Method for Analysis of Copper Peptide GHK-Cu on Primesep 200 Column



High Performance Liquid Chromatography (HPLC) Method for Analysis of Copper peptide (GHK-Cu)

Copper Peptide GHK-Cu is a naturally occurring copper complex with the molecular formula C₁₄H₂₂CuN₆O₄ • C₂H₄O₂. Research shows that the complex facilitates faster wound healing, improved angiogenesis, and elevated level of antioxidant enzymes. Often times, it is used in anti-aging cosmetics.

Copper peptide (GHK-Cu) can be retained and analyzed using the Primesep 200 stationary phase column. The analysis utilizes a gradient method with a simple mobile phase consisting of water and acetonitrile (MeCN) with a ammonium formate buffer. Detection is performed using LC MS.

*LOD was determined for this combination of instrument, method, and analyte, and it can vary from one laboratory to another even when the same general type of analysis is being performed.

Method Parameters

Column	Primesep 200, 3.2 x 150 mm, 5 µm, 100 Å, dual ended
Mobile Phase	MeCN – 20%
Buffer	Ammonium formate
Flow Rate	0.5 mL/min
Detection	LC MS ESI GHK (free peptide, [M+H] ⁺) 341

Quelle: <https://sielc.com/hplc-method-for-analysis-of-ghk-cu>