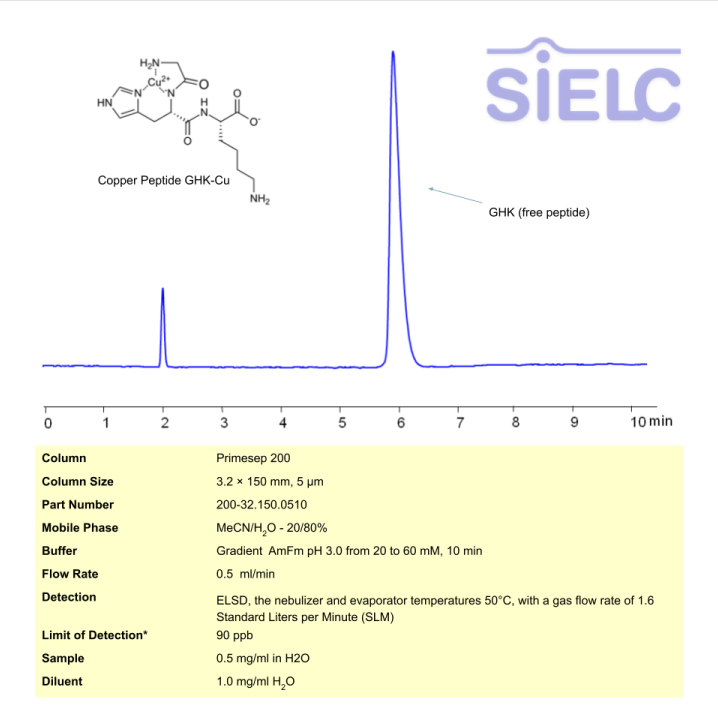
HPLC ELSD Method for Analysis of Copper Peptide GHK-Cu on Primesep 200 Column



Column	Primesep 200
Column Size	3.2 × 150 mm, 5 µm
Part Number	200-32.150.0510
Mobile Phase	MeCN/H_2O - 20/80%
Buffer	Gradient AmFm pH 3.0 from 20 to 60 mM, 10 min
Flow Rate	0.5 ml/min
Detection	ELSD, the nebulizer and evaporator temperatures 50°C, with a gas flow rate of 1.6 Standard Liters per Minute (SLM)
Limit of Detection*	90 ppb
Sample	0.5 mg/ml in H2O
Diluent	1.0 mg/ml H_2O

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 angiognesis, 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 ELSD.

*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	ELSD

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

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