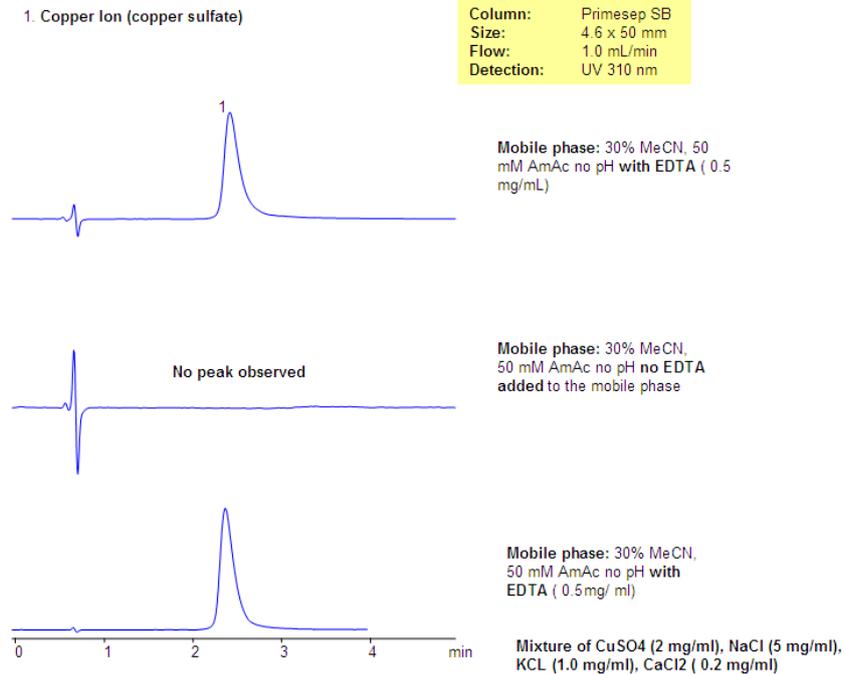


HPLC UV Analysis of Copper Ions in Salt Mixture



A unique approach for analysis of copper ions in a high salt content matrix was developed using EDTA as a visualization agent. Since copper ions can form colored complexes with EDTA, this property can be used for selective analysis of copper in the mixture with other cations, which do not form a colored complex with EDTA. Copper ion can be monitored by UV while other metals pass through the column undetected by UV. This method can be used to analyze copper ion at parts per million concentrations.

Method Parameters

Column	Primesep SB, 4.6x50 mm, 5 µm, 100 Å
Mobile Phase	MeCN/H ₂ O – 30/70%
Buffer	AmAc, EDTA
Flow Rate	1.0 mL/min
Detection	UV, 310 nm

Quelle: <https://sielc.com/Application-HPLC-UV-Analysis-of-Copper-Ions-in-Salt-Mixture>